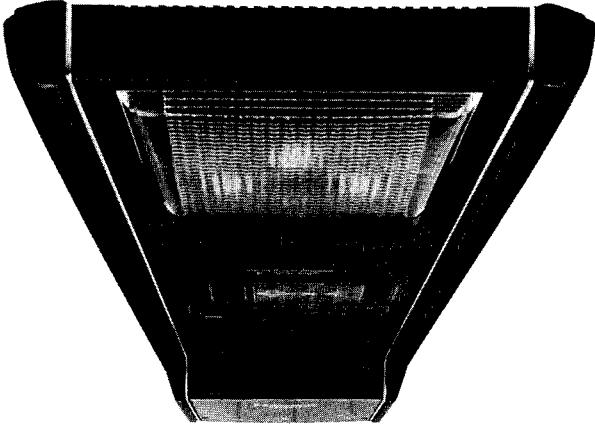


Service Manual

Car Audio
RM-310

Overhead Console Type Hi-Fi Car Audio System



ORDER NO. RD81081902C2

RM-310

SPECIAL FEATURES

Tuner Section

- FM/AM/FM Stereo Tuner
- Tuning Optimizer LED Indicators
- FM Stereo Auto/Mono Switch and Stereo Indicator
- DX/Local Sensitivity Selector
- Muting Circuit on FM
- Built-in INQ (Impulse Noise Quieting) Circuit
- 3 Station Guides on Tuning Dial

Audio Amplifier Section

- 3-Band Sound Equalizer with Center-detent
- 10 LED Output Power Indicator
- Balance and Fader Controls with Center-detent
- Loudness and High filter Switches
- Volume Control with 21 Detents
- Power Amplifier built into Console Unit
- 20 Watts (RMS) Total Output Power

Cassette Deck Section

- Repeattrack Cassette Player System
- Locking Fast forward and Rewind
- Auto Eject System when Ignition Key is Off

General

Power Source:	DC 12 V (11–16 V usable) Negative ground only
Test Voltage:	14.4 V
Power Consumption:	4.5A at rated power output
Dimensions:	708 (L) × 219 (W) × 41 (D) mm (27 $\frac{7}{8}$ " × 8 $\frac{5}{8}$ " × 1 $\frac{5}{8}$ ")
Cassette Deck Section Depth	
Weight:	68 mm (2 $\frac{11}{16}$ ") 3.6 kg (7 lb 15 oz)

FM Tuner Section

Frequency Range:	88–108 MHz
Usable Sensitivity:	16 dBf (1.7 μ V/75 ohms)
50 dB Quieting Sensitivity:	18 dBf (2.2 μ V/75 ohms)
Signal to Noise Ratio:	73 dB (A-Weighted)
Image Rejection:	60 dB
IF Rejection:	95 dB
RF IMD Rejection:	80 dB
Frequency Response:	30–15,000 Hz (± 3 dB)
Stereo Separation:	35 dB at 1,000 Hz

AM Tuner Section

Frequency Range:	525–1610 kHz (571~186m)
Max. Sensitivity:	23 dB (at 500 mW output)
Selectivity:	35 dB (± 10 kHz)

Cassette Deck Section

Wow and Flutter:	0.15% (WRMS)
Cross-Talk:	55 dB
Signal to Noise Ratio:	55 dB (A-Weighted)
Frequency Response:	45–12,000 Hz (± 3 dB)
Stereo Separation:	40 dB at 1,000 Hz

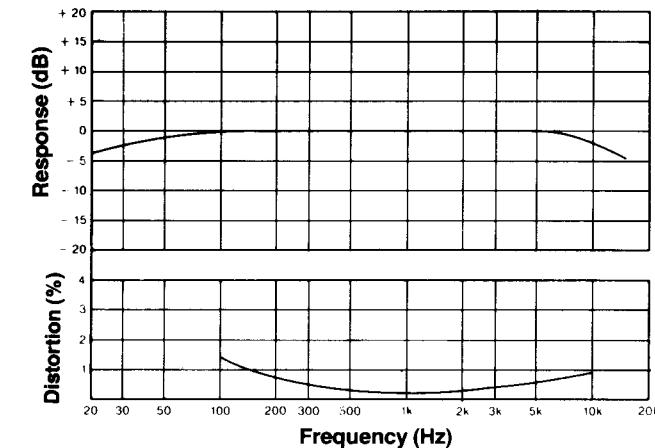
Audio Amplifier Section

Rated Power Output:	(2 CH) 10 Watts per channel minimum continuous average power into 4 ohms, both channels driven, from 30 to 20,000 Hz with no more than 1% total harmonic distortion.
Max. Power Output:	(4 CH) 4 Watts per channel minimum continuous average power into 4 ohms, all channels driven, from 60 to 20,000 Hz with no more than 5% total harmonic distortion.
Distortion:	(2 CH) Total 46 Watts RMS 23 Watts per channel
Frequency Response:	(4 CH) Total 28 Watts RMS 7 Watts per channel
Signal to Noise Ratio:	(2 CH) 0.25% at -3 dB at Rated Power, 1,000 Hz

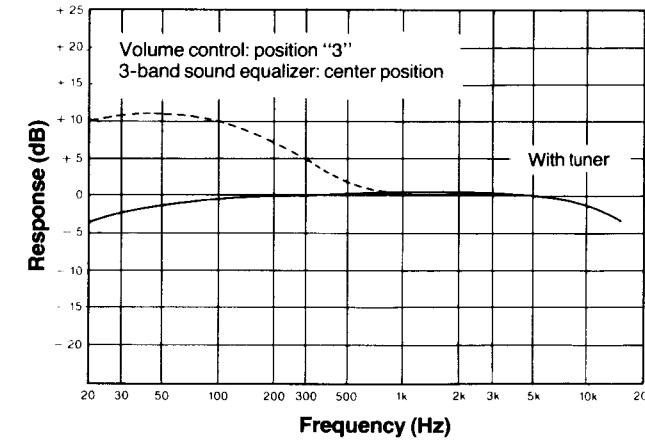
Distortion:	(2 CH) 15 to 20,000 Hz, ± 3 dB at 1 Watt
Frequency Response:	(2 CH) 80 dB (A-Weighted)
Signal to Noise Ratio:	50 Hz ± 10 dB
Tone Control:	250 Hz ± 6 dB, -10 dB
Loudness:	10 kHz ± 10 dB

Specifications are subject to change without notice.

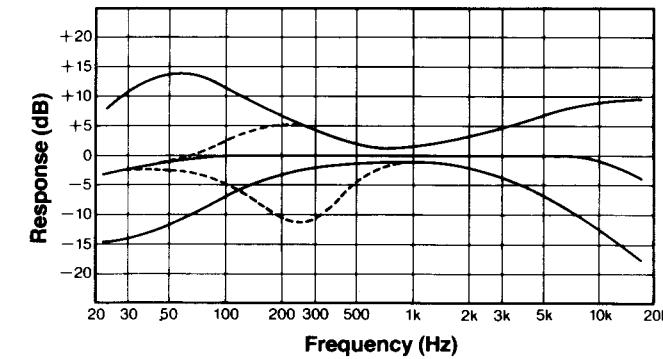
FM tuner frequency response



Loudness frequency response



3-band sound equalizer frequency response



CONTROLS AND FUNCTIONS

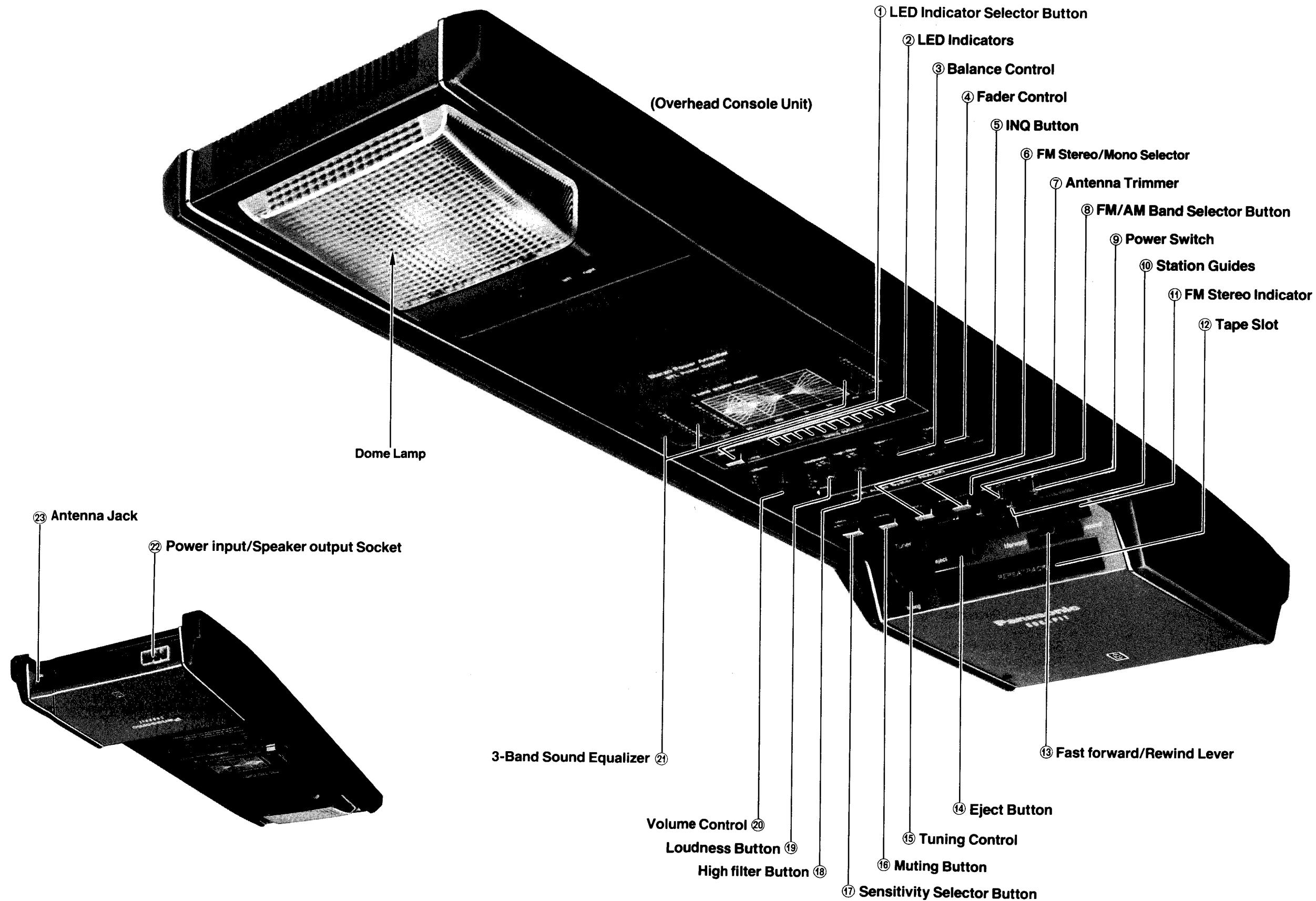


Fig. 1

① LED indicator selector button

- For tape play set this button to "level" (■).

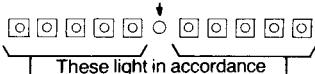
The output level of the left and right speakers is indicated by the flashing of the LED indicators ②. When the button is set to the "tuning" (■), only the center section (red) lights.

- For radio reception, first set the button to "tuning" (■) and then tune in the station. If the button is set to "level" (■) after tuning, the output level will be indicated by the flashing of the LED indicators just as with tape play.

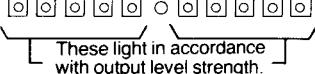
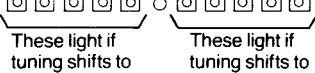
② LED indicators

These indicators are coupled with the LED indicator selector button ① and it lights as follows.

•Tape playback

LED indicator selector button ①	Lighting mode
level (■)	This always lights.  These light in accordance with output level strength.

•Radio reception

LED indicator selector button ①	Lighting mode
level (■)	Lights only during reception.  These light in accordance with output level strength.
tuning (■)	This lights when tuning.  These light if tuning shifts to the left. These light if tuning shifts to the right. Rotate Tuning Control ⑯ and adjust so that center red indicator only lights.

③ Balance control

When this control is turned to the left, the sound volume heard through the left speaker increases and when turned to the right, the sound volume heard through the right speaker increases. The sound heard through both the left and right speakers is the same when the control is set to its center detent position.

④ Fader control

When using a 4-speaker system, use this control to attain a balance of sound between the front and the rear speakers.

Make sure that the control is set in the center position if you have only a 2-speaker system.

⑤ INQ button

Use this button to suppress ignition and pulse-like noise. If the signals are weak, set the button to "off".

⑥ FM stereo/mono selector button

- Depress this button to set it in the "auto st" position (LED lights up), for normal operation.

A stereo program will be automatically come through in stereo and a mono program will be automatically come through in mono.

- If the signals from the broadcasting station are weak, set the button to "mono" (LED goes off) in order to reduce the amount of noise. In such cases, a stereo program is also heard in mono and the FM Stereo indicator ⑪ does not light up.

⑦ Antenna trimmer

This is the antenna trimmer for AM reception only. After installing and connecting it, adjust it optimally.

⑧ FM/AM band selector button

Set this button to your desired radio band; FM or AM.

⑨ Power switch

Depress this button to "on" (■), power is supplied to all the components except the cassette deck.
Cassette deck power comes on when tape is inserted.

⑩ Station guides

Move the guides and preset them to the positions on the tuning dial where your favorite stations are located. They will then help you to tune in the stations more easily.

⑪ FM stereo indicator

This lights up when the FM stereo/mono selector button ⑥ is set to "auto st" and when a stereo broadcast is received.

When the FM stereo/mono selector button is set to "mono", the indicator will not light up even when a stereo broadcast is being received, and the stereo broadcast will be received in mono.

⑫ Tape slot

Insert the cassette tape into this slot. Make sure that the exposed side of the tape is inserted first.

(13) Fast forward/rewind lever**•Fast forward**

Move the lever to the left (f. forward). When the tape has been wound forward at high speed, and reaches its end it will be automatically ejected.

•Rewind

Move the lever to the right (rewind). When the tape is rewound to its beginning, tape play will start automatically.

(14) Eject button

Depress this button to eject the cassette tape. The tape will then be automatically ejected and the power switched off. However, if the Power switch ⑧ is set to "on", operation will be automatically switched over to radio operation.

(15) Tuning control

Use this control to tune in your favorite stations. When a station has been tuned in properly, only the center (red) part of the LED indicator ② lights. (LED indicator selector button "tuning").

(16) Muting button

Use this to suppress interstation noise (noise heard between FM broadcasting stations).

(17) Sensitivity selector button

Keep this button normally in the "DX" (■) position. In areas where the signals are strong, the sound may be distorted or there may be interference. In this case, set the button to "local" (□).

(18) High filter button

Set this button to "on" (■) when playing back a tape which has been recorded with the Dolby system and when a reduction in the amount of tape hiss and other high-frequency range noise is desired.

(19) Loudness button

At low volume levels, the response of the human ear primarily in the mid range area, and response to low frequency is poor. As the volume level increases the response levels off, and the low and mid range are heard with equal loudness. The loudness control in this unit is designed to compensate for this human deficiency, by boosting the bass end of the audio spectrum at low volume levels, and gradually diminishing the boost as the volume control is advanced. At a volume control setting of 5 or higher the frequency response is essentially flat.

(20) Volume control

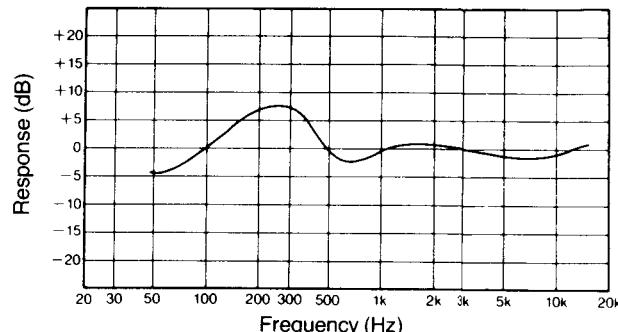
Use this to adjust the volume to the preferred level.

(21) 3-band sound equalizer

Use this to adjust the sound to the tone quality of your preference, bearing in mind that the acoustics inside a vehicle differ according to the interior decor and other factors.

When each of the knobs is slid toward "+", the sound is emphasized and when slid toward "-", the sound is reduced. Normally, the acoustic response inside a vehicle is such that the frequencies neighboring 250 Hz tend to be emphasized and the bass sound uncontrolled. In cases like this, move the "250 Hz" control toward "—" and once this imitation bass sound is reduced, the real bass will appear to be balanced.

Usual in-car sound transmission characteristics

**(22) Power input/Speaker output Socket**

Plug in the supplied inter connection harness. These are used to connect the overhead console unit's power input, and also for the speaker output cords.

(23) Antenna Jack

Plug in the supplied antenna lead plug and connect its to car antenna.

Power amplifier protection circuit

The power amplifier contains a protection circuit to safeguard the unit from damage.

It cuts off the main amplifier's circuits automatically, when the speaker leads or terminals are shorted. (The FM/AM tuner, cassette deck and preamplifier continue to function normally.)

If there is no sound even when the Volume control ⑩ is rotated clockwise and the LED indicator ④ lights up, this circuit may have been actuated. Switch the power off and check the speaker connections before switching the power on again.

HOW TO REMOVE OVER-HEAD CONSOLE UNIT FROM THE ROOF

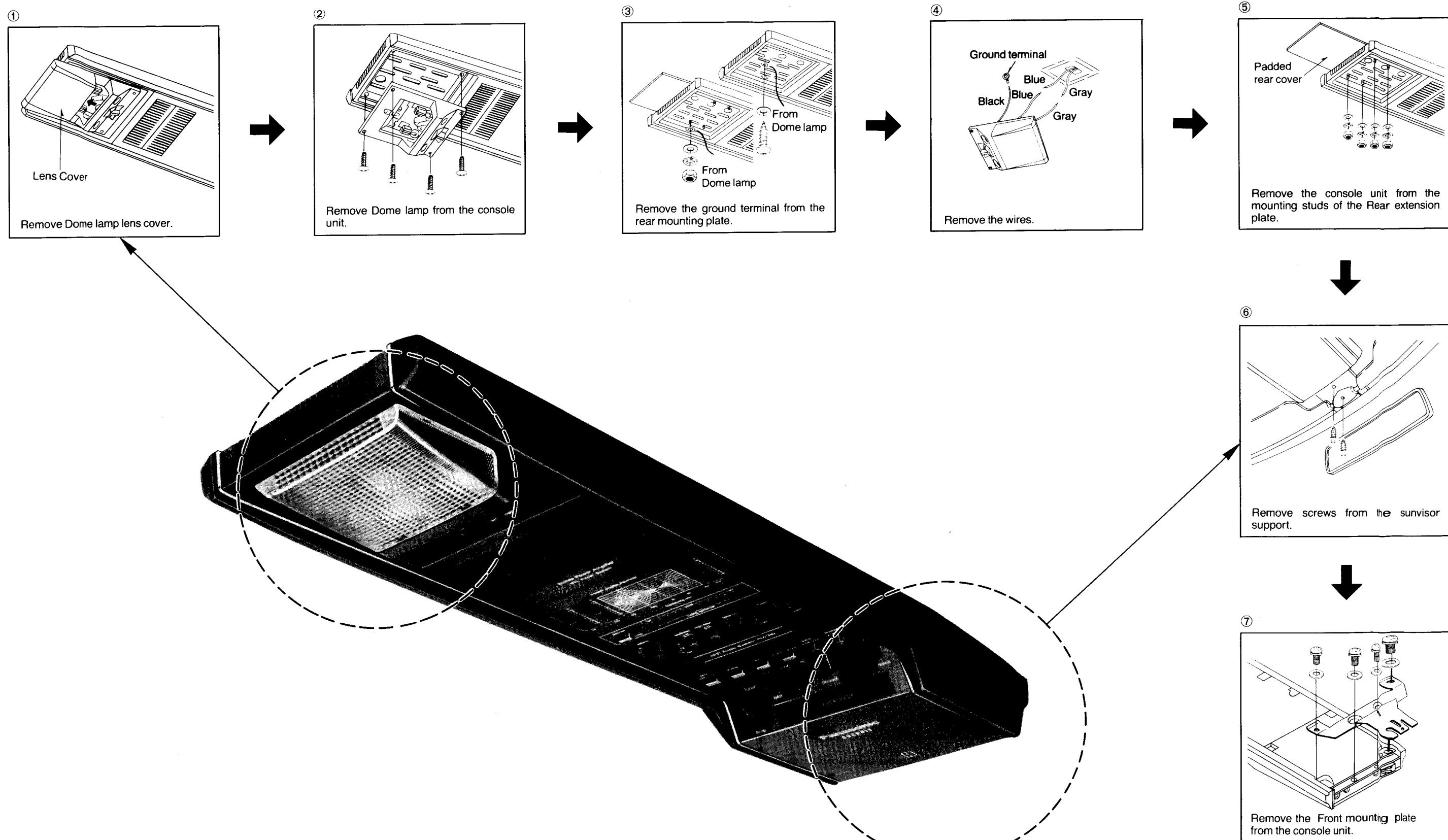


Fig. 2

DISASSEMBLY INSTRUCTIONS

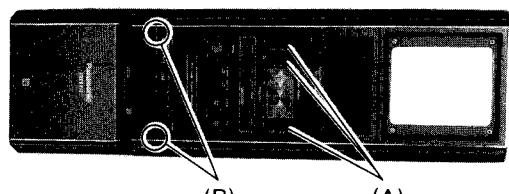


Fig. 3

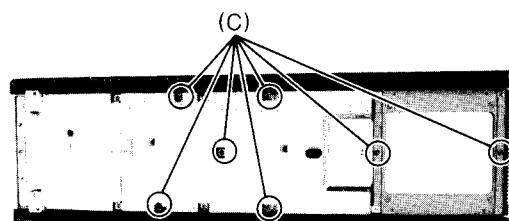


Fig. 4

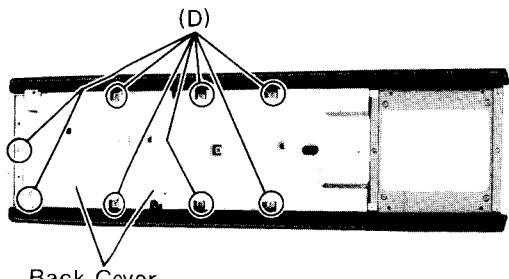


Fig. 5

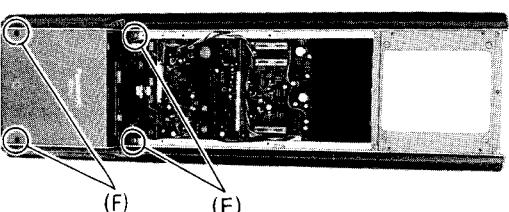


Fig. 6

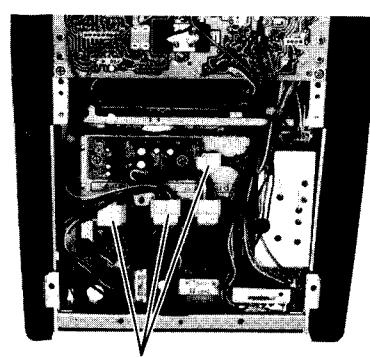


Fig. 7

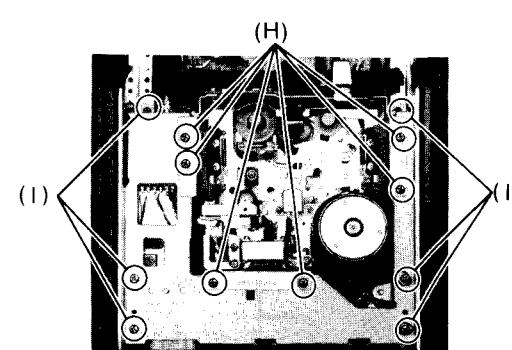


Fig. 8

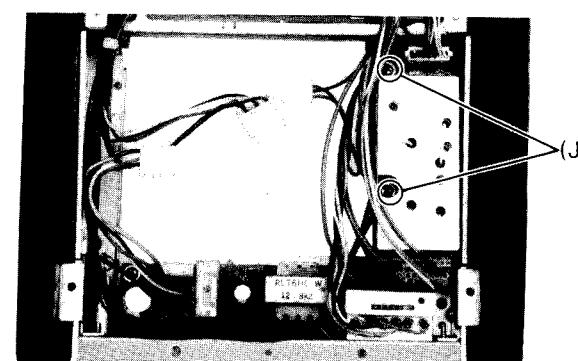


Fig. 9

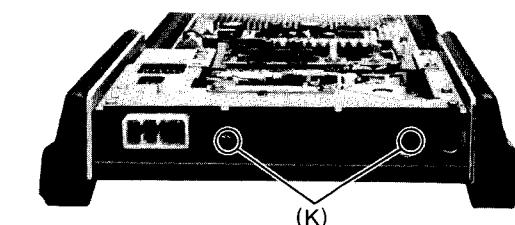


Fig. 10

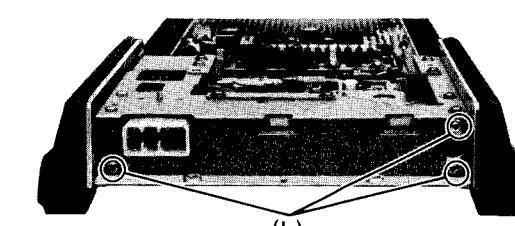


Fig. 11

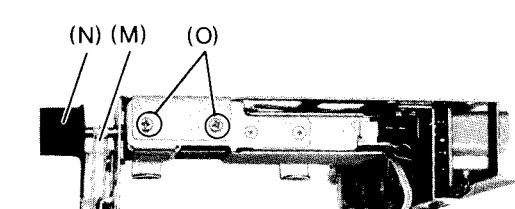


Fig. 12

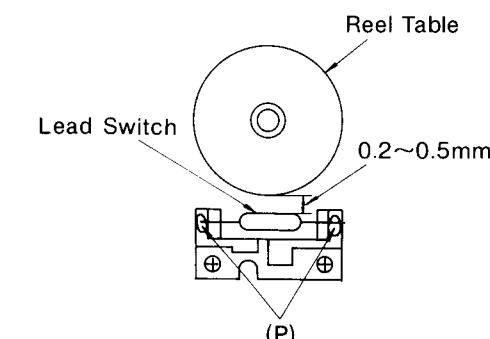


Fig. 13

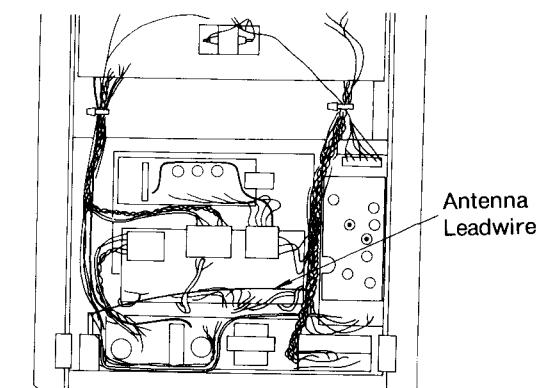


Fig. 14

Procedure	To remove—	Remove—	Shown in Fig.—
1	Front Panel, Deck Cover and Back Cover	Knobs(A) × 3	3
2		Screws (3 × 16)(B) × 2	3
3		Red Screws (3 × 12) ... (C) × 7	4
4		Screws (3 × 6)(D) × 8	5
5		Red Screw (3 × 8)(E) × 2	6
6		Screw (3 × 10)(F) × 2	6
7	Cassette Deck *1	Sockets(G) × 3	7
8		Red Screws (3 × 6)(H) × 6	8
9	Dial Chassis	Screws (3 × 8)(I) × 6	8
10		Screws (3 × 6)(J) × 2	9
11		Screws (3 × 8)(K) × 2	10
12	Tuner *2	Screws (3 × 8)(L) × 3	11
13		Dial Cord(M)	12
14		Knob(N) × 1	12
15	Lead Switch *3	Screws (3 × 5)(O) × 2	12
16		Unsolder(P) × 2	13

*1. Please treat the leads as shown in Fig. 14.

*2. Refer to dial threading.

*3. Keep a gap (0.2~0.5 mm) as shown in Fig. 13.

DIAL THREADING

Note: Cord length is 397mm (15 3/4").

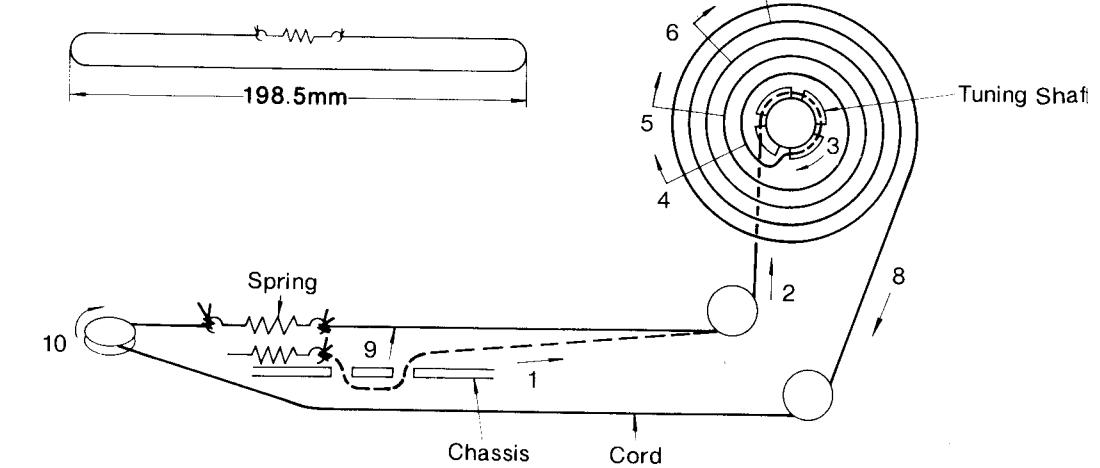
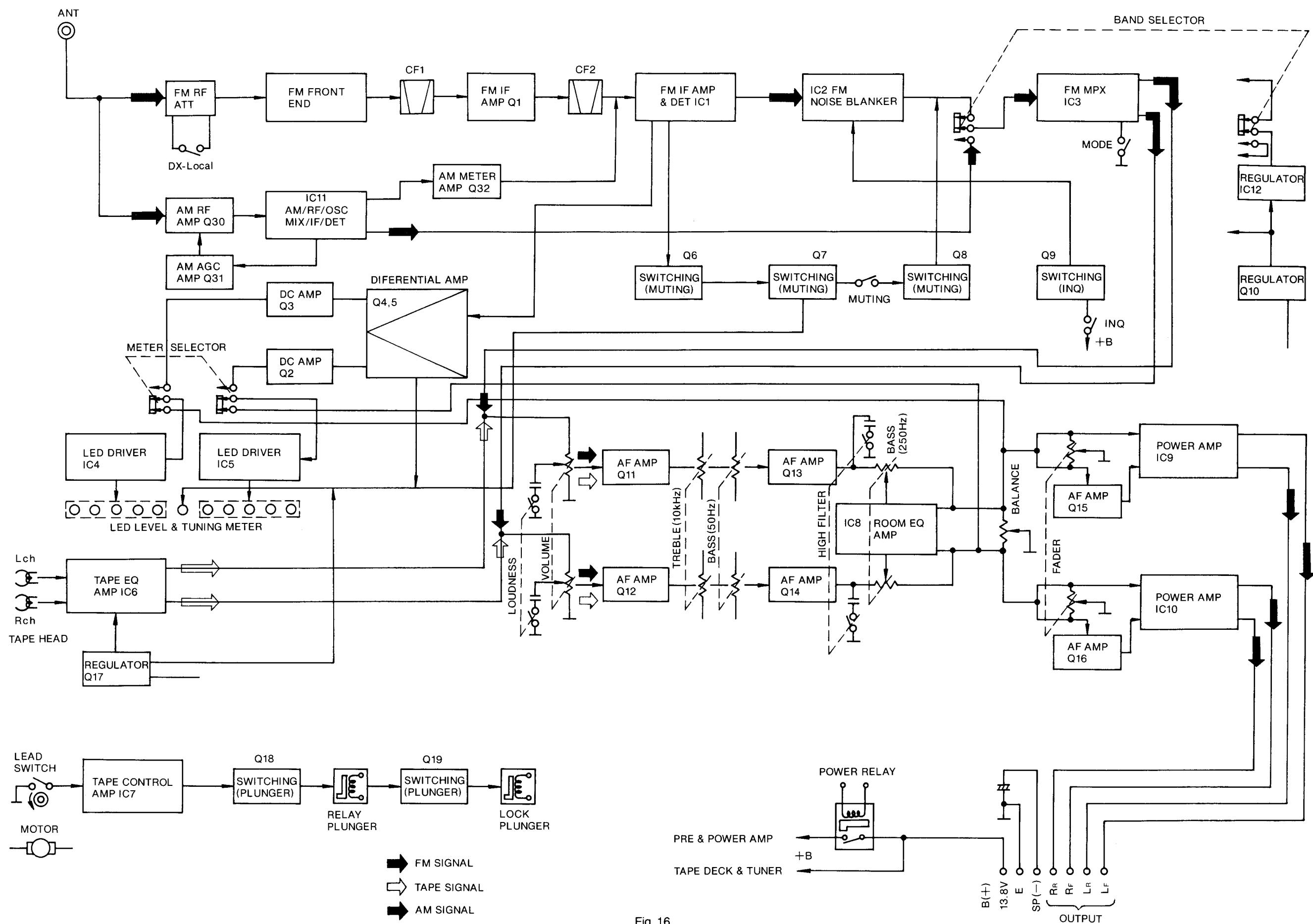


Fig. 15

BLOCK DIAGRAM



■ TUNER ALIGNMENT

1. Set power switch to on.	8. Set high-filter switch to off.
2. Set sensitivity switch to DX.	9. Set selector switch to tuning.
3. Set stereo auto switch off or on...(separation alignment only)	10. Set equalizer to center.
4. Set muting switch to off or on...(pilot alignment only)	11. Set balance and fader to center.
5. Set INQ switch to off.	12. Set volume to 500 mW.
6. Set band switch to AM or FM.	13. Set power source voltage to 13.8 V DC.
7. Set loudness switch to off.	

AM ALIGNMENT (See Figs. 17, 18)

SIGNAL GENERATOR or SWEEP GENERATOR	DIAL SETTING	INDICATOR (VTVM or SCOPE)	ADJUSTMENT	REMARKS	
CONNECTIONS	FREQUENCY				
Positive side to point▼.	455 kHz	Point of non-interference.	Positive side to point▼. Negative side to point▼.	T ₈₀₂ (IFT) T ₈₀₃ (IFT)	① Pull out T ₈₀₃ to the top of bobbin. ② Adjust T ₈₀₂ so that 455 kHz marker appears at the center. (Refer to Fig. 20.) ③ Adjust T ₈₀₃ for maximum amplitude.
AM-RF ALIGNMENT					
Connect to antenna terminal through AM dummy antenna (Refer to Fig. 19.)	520 kHz	Minimum frequency.	Output meter across speaker voice coil.	T ₈₀₁ (OSC Coil)	Adjust for maximum output.
"	1400 kHz	Tune to signal.	"	CT ₈₀₁ (Ant. Trim.) CT ₈₀₃ (Ant. Trim.) CT ₈₀₄ (Ant. Trim.)	① Set CT ₈₀₁ to center. ② Adjust CT ₈₀₃ and CT ₈₀₄ for maximum output.
"	1680 kHz	Maximum frequency.	"	CT ₈₀₂ (OSC Trim.)	Adjust for maximum output.

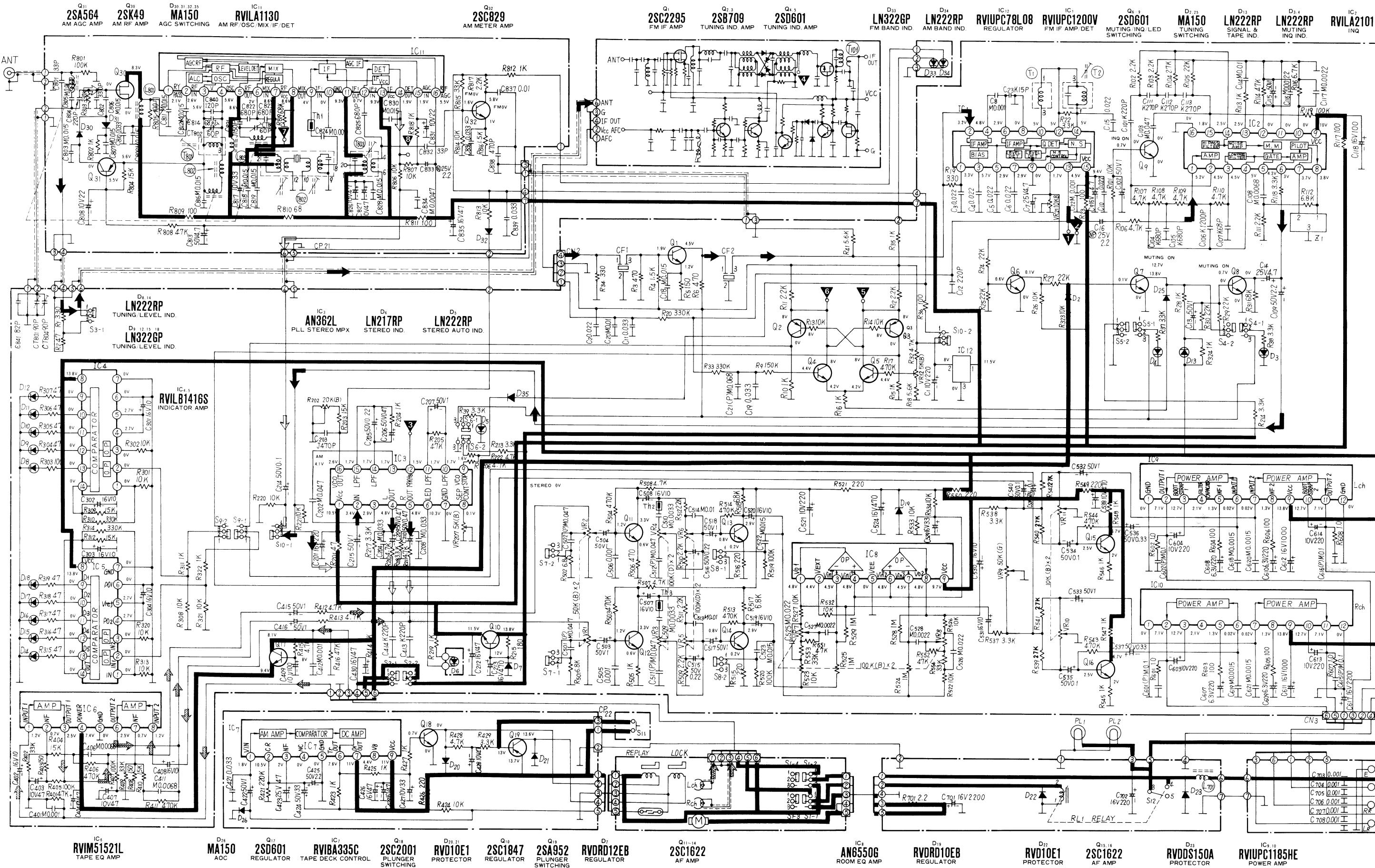
FM ALIGNMENT (See Fig. 17)

SIGNAL GENERATOR or SWEEP GENERATOR	DIAL SETTING	INDICATOR (VTVM or SCOPE)	ADJUSTMENT	REMARKS	
CONNECTIONS	FREQUENCY				
FM-IF & DETECTOR ALIGNMENT					
Apply signal thru. 0.001μF to point▼ ground of SG to point▼.	10.7 MHz (400 kHz SWP.)	Point of non-interference. (on/about 90 MHz).	Connect vert. amp. of scope to point▼.	T ₁₀₁	① Set VR ₂₁ minimum. ② Pull out T ₂ and confirm that wave form should be normal. ③ Adjust for maximum amplitude and proper linearity between ±100 kHz markers. (Refer to Fig. 20.)
"	"	"	"	T ₂	Adjust T ₂ so that 10.7 MHz marker appears at the center. (Refer to Fig. 21.)
MUTING ALIGNMENT					
SIGNAL GENERATOR or SWEEP GENERATOR	DIAL SETTING	DC VTVM	ADJUSTMENT	REMARKS	
CONNECTIONS	FREQUENCY				
Connect to antenna terminal through FM dummy antenna (Refer to Fig. 22.)	98 MHz (30% Mod.)	Tune to signal.	Output meter across speaker voice coil.	VR ₂₁	① Tune signal to obtain maximum output. ② Set signal generator output to 60 dB. ③ Turn volume control so that DC VTVM reading becomes 0.45 V. ④ Set signal generator output to -10 dB. ⑤ Turn VR ₂₁ so that DC VTVM reading becomes 0.017~0.022 V.

LED METER ALIGNMENT (See Fig. 17)

SIGNAL GENERATOR or SWEEP GENERATOR	DIAL SETTING	DC VTVM (Center 0)	ADJUSTMENT	REMARKS	
CONNECTIONS	FREQUENCY				
Connect to antenna socket through FM dummy antenna.	98 MHz	Tune to signal.	Positive side to point▼. Negative side to point▼.	VR ₁₂	① Tune signal to obtain maximum output. ② Set signal generator output to 60 dB. ③ Turn VR ₁₂ so that DC VTVM reading becomes 0.

SCHEMATIC DIAGRAM - MODEL RM-310



→ FM Signal

→ AM Signal

→ Tape Signal

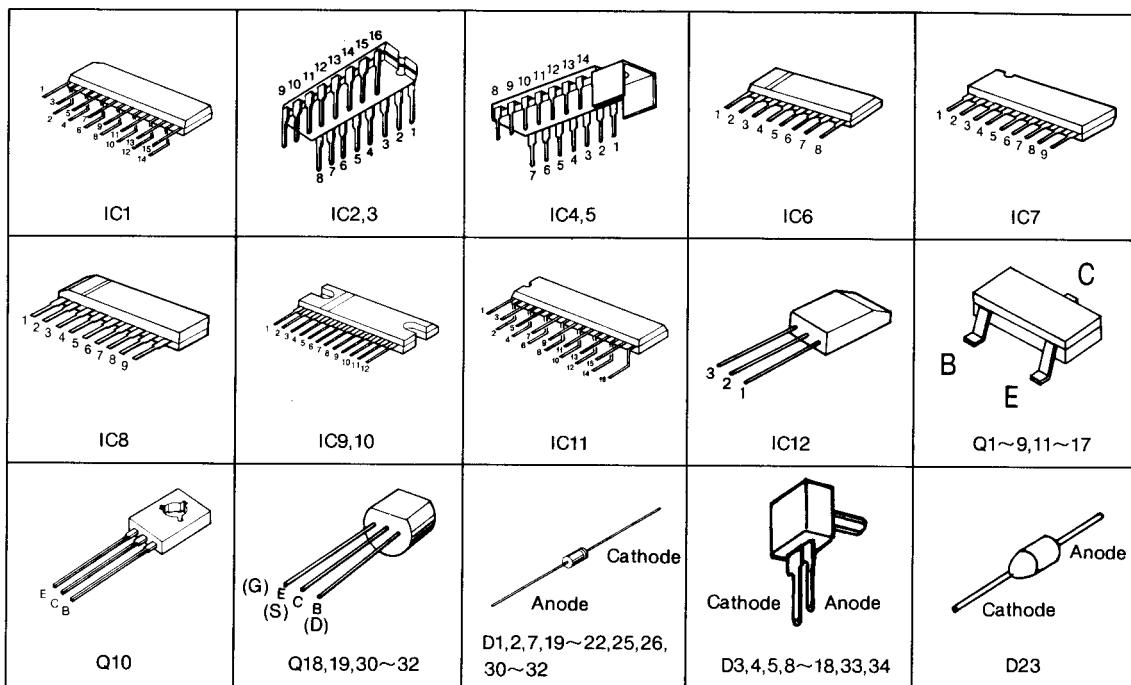
→ AF Signal

Reference:

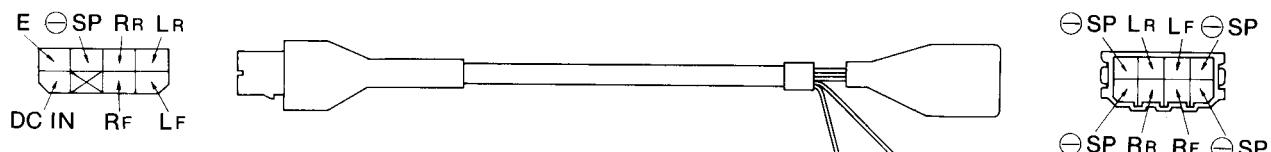
Relation between terminal voltages of INDICATOR AMP, IC4 (IC5) and illuminated order of LED level meter.

Illuminated order of LED		D ₁₂ (D ₁₈)	D ₁₁ (D ₁₇)	D ₁₀ (D ₁₆)	D ₉ (D ₁₅)	D ₈ (D ₁₄)
Terminal voltage of IC4 (IC5)	② in mV (input)	10	18	32	44	62
	⑨ in V	2.5	2.5	2.5	2.5	2.5
	⑩ in V	0	2.5	2.5	2.5	2.5
	⑪ in V	0	0	2.5	2.5	2.5
	⑫ in V	0	0	0	2.5	2.5
	⑬ in V	0	0	0	0	2.7
Output power in W		0.05	0.16	0.5	1	2

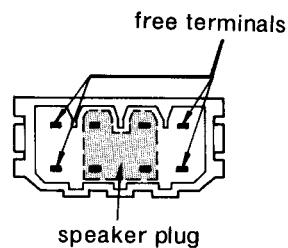
Each value shown in above table is merely a guide.

**Notes:**

1. S₁₋₁~S₁₋₄: Power switch for tape deck in "OFF" position.
2. S₂₋₁, S₂₋₂: Power switch for tuner in "OFF" position.
3. S₃₋₁, S₃₋₂: Sensitivity selector switch in "DX" position.
4. S₄₋₁, S₄₋₂: Muting switch in "OFF" position.
5. S₅₋₁, S₅₋₂: INQ switch in "OFF" position.
6. S₆₋₁, S₆₋₂: Stereo auto switch in "OFF" position.
7. S₇₋₁, S₇₋₂: Loudness switch in "OFF" position.
8. S₈₋₁, S₈₋₂: High-filter switch in "ON" position.
9. S₉₋₁, S₉₋₂: Meter selector switch in "Level" position.
10. S₁₀₋₁, S₁₀₋₂: Band selector switch in "FM" position.
11. S₁₁: Eject switch in "OFF" position.
12. S₁₂: Relay switch in "OFF" position.
13. DC voltage measurements are taken with electronics voltmeter from between measured parts and ground.

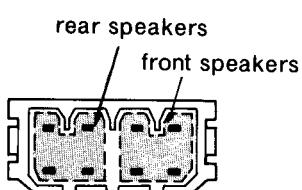


2-Speaker System

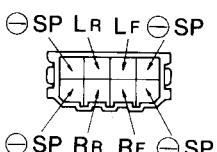


A

4-Speaker System

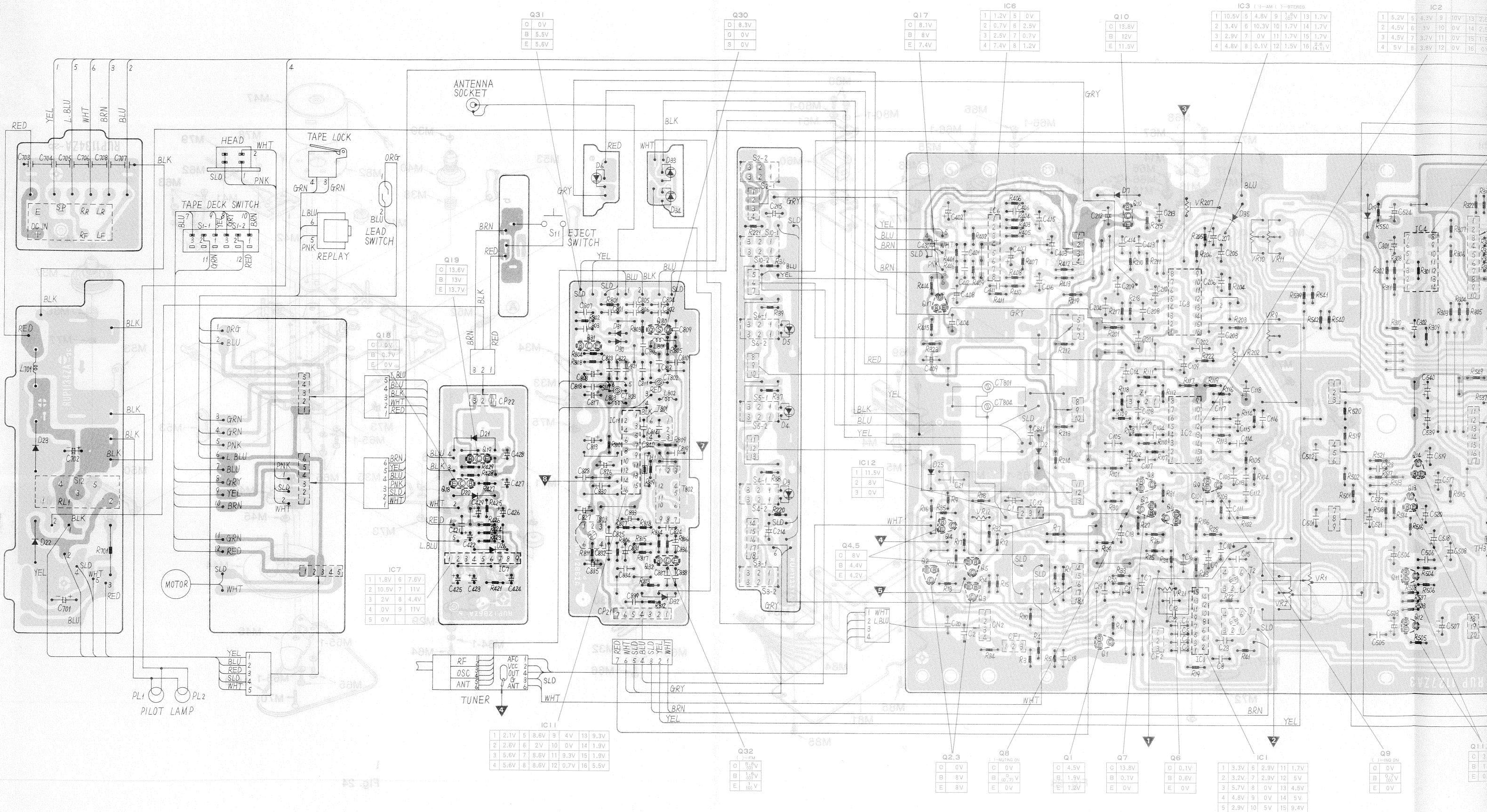


B

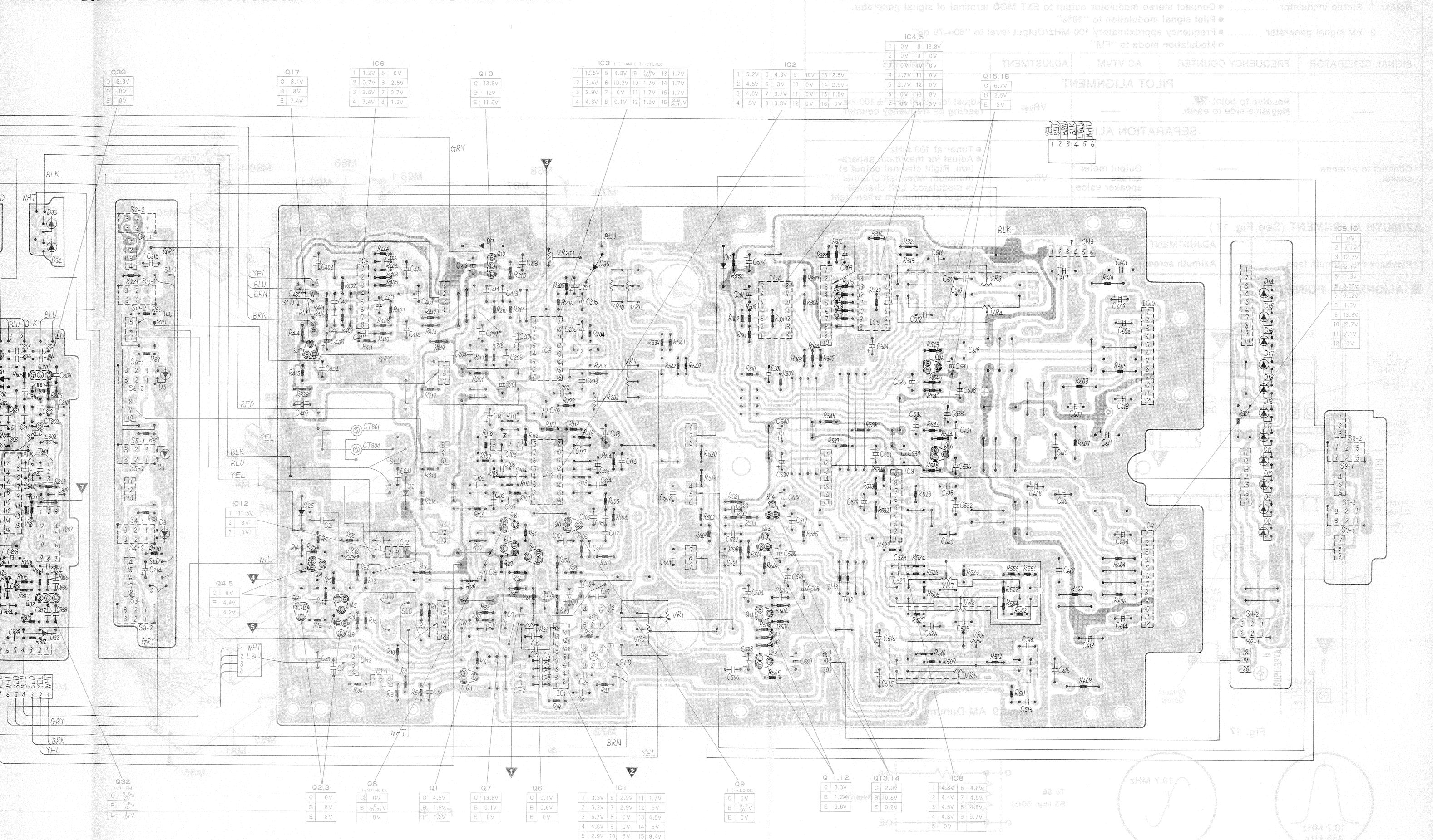


Terminal
C
- Terminal
+ Terminal

CIRCUIT BOARD CONDUCTOR SIDE - MODEL RM-310



CIRCUIT BOARD CONDUCTOR SIDE - MODEL RM-310



STEREO ALIGNMENT (See Fig. 17)

Notes:

- 1. Stereo modulator • Connect stereo modulator output to EXT MOD terminal of signal generator.
- 2. FM signal generator • Pilot signal modulation to "10%"
- • Frequency approximatery 100 MHz/Output level to "60~70 dB"
- • Modulation mode to "FM"

SIGNAL GENERATOR	FREQUENCY COUNTER	AC VTVM	ADJUSTMENT	REMARKS
PILOT ALIGNMENT				
—	Positive to point ▼. Negative side to earth.	—	VR ₂₀₂	Adjust for 19.00 kHz ±100 Hz reading on frequency counter.
SEPARATION ALIGNMENT				
Connect to antenna socket.	—	Output meter across speaker voice coil.	VR ₂₀₇	• Tuner at 100 MHz • Adjust for maximum separation. Right channel output at minimum when left channel is modulated. Left channel output at minimum when right channel is modulated.

AZIMUTH ALIGNMENT (See Fig. 17)

TAPE	ADJUSTMENT	REMARKS
Playback the azimuth tape.	Azimuth screw.	Adjust for maximum output (L, R ch).

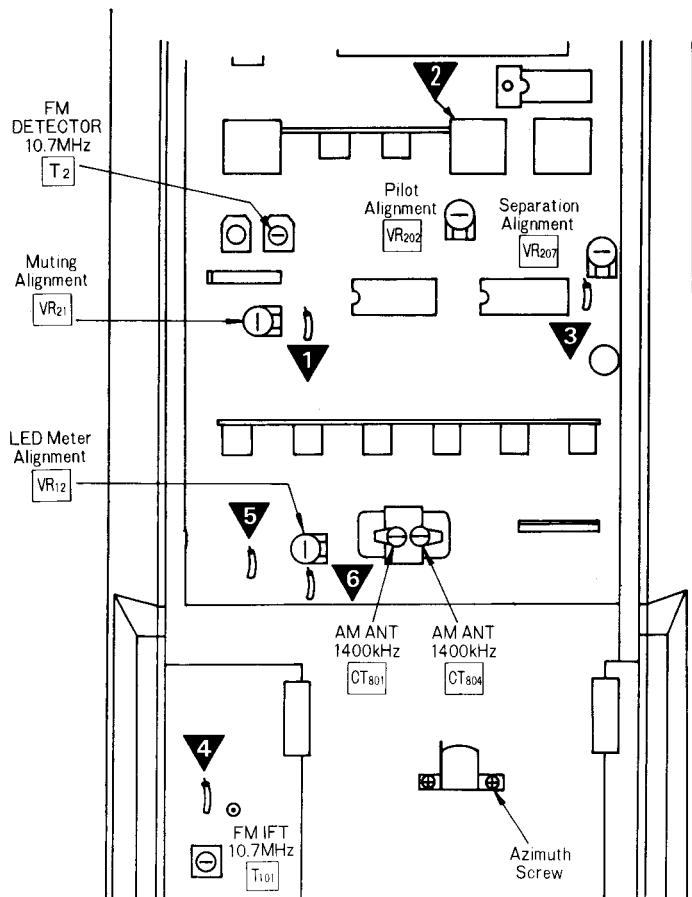
■ ALIGNMENT POINTS

Fig. 17

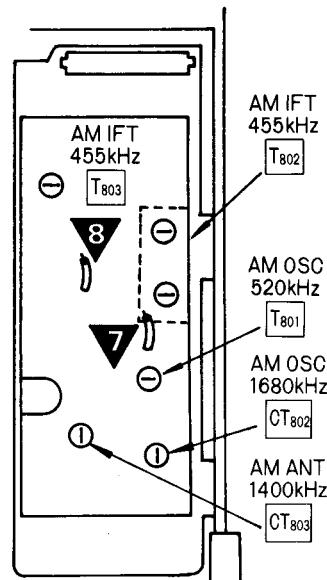


Fig. 18

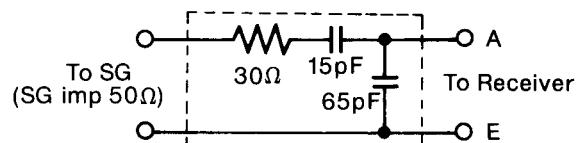


Fig. 19 AM Dummy Antenna

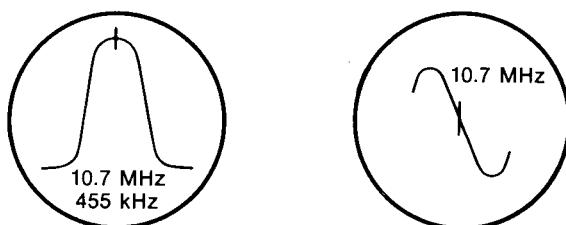


Fig. 20

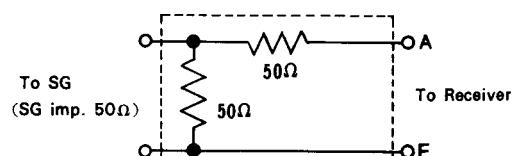


Fig. 22 FM Dummy Antenna

Fig. 21

CASSETTE TAPE MECHANISM EXPLODED VIEWS

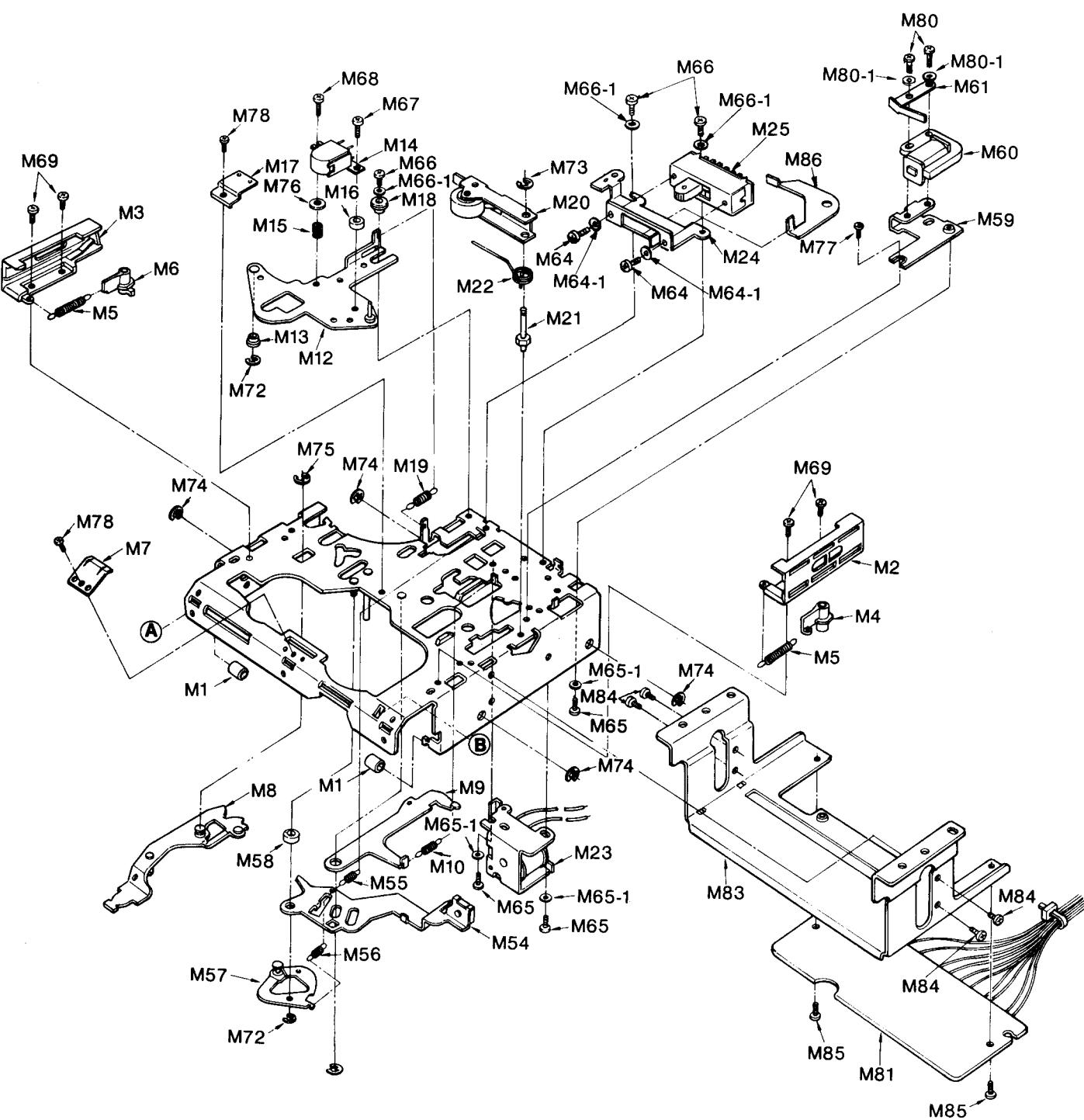


Fig. 23

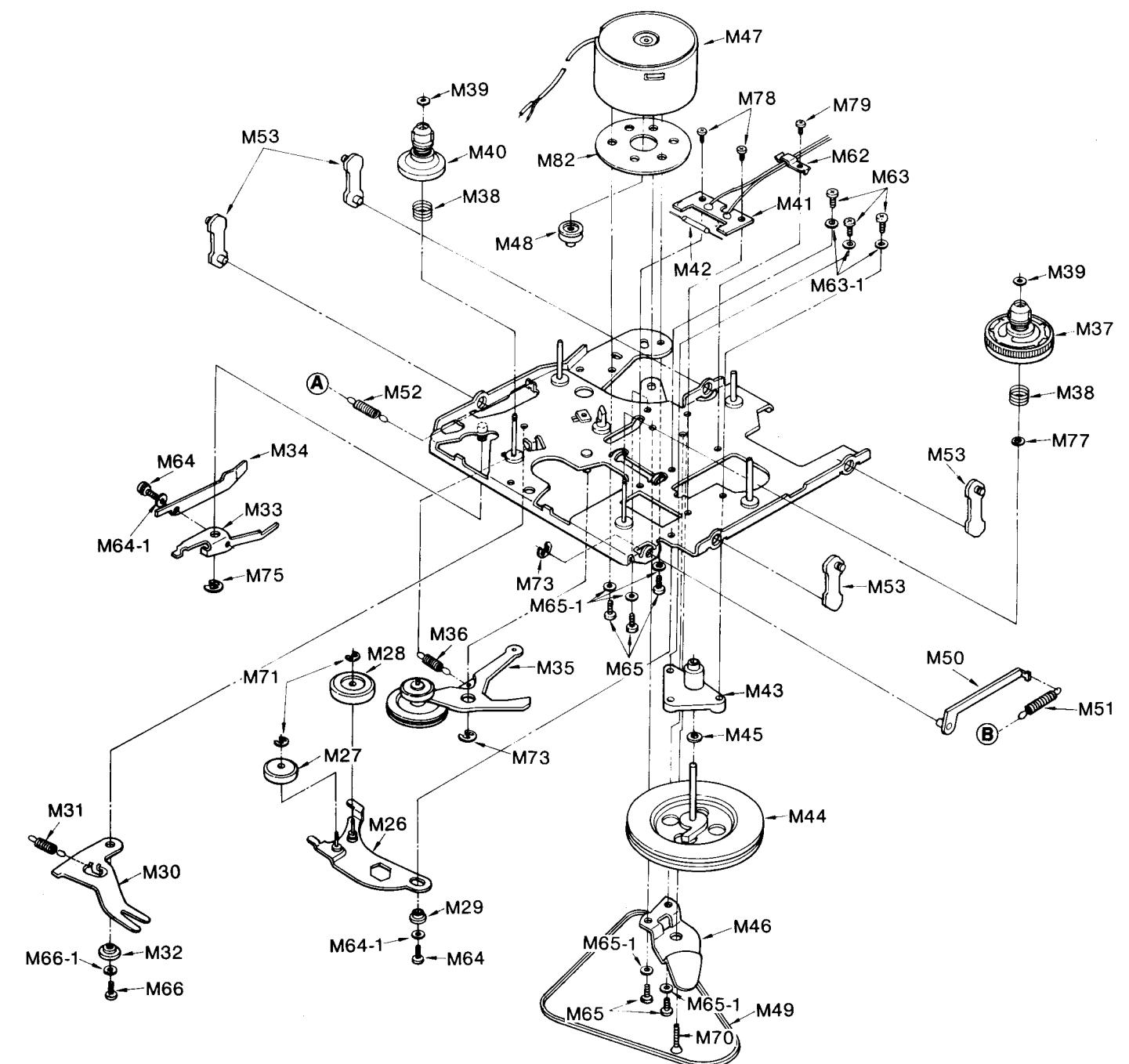


Fig. 24

CABINET PARTS LOCATIONS

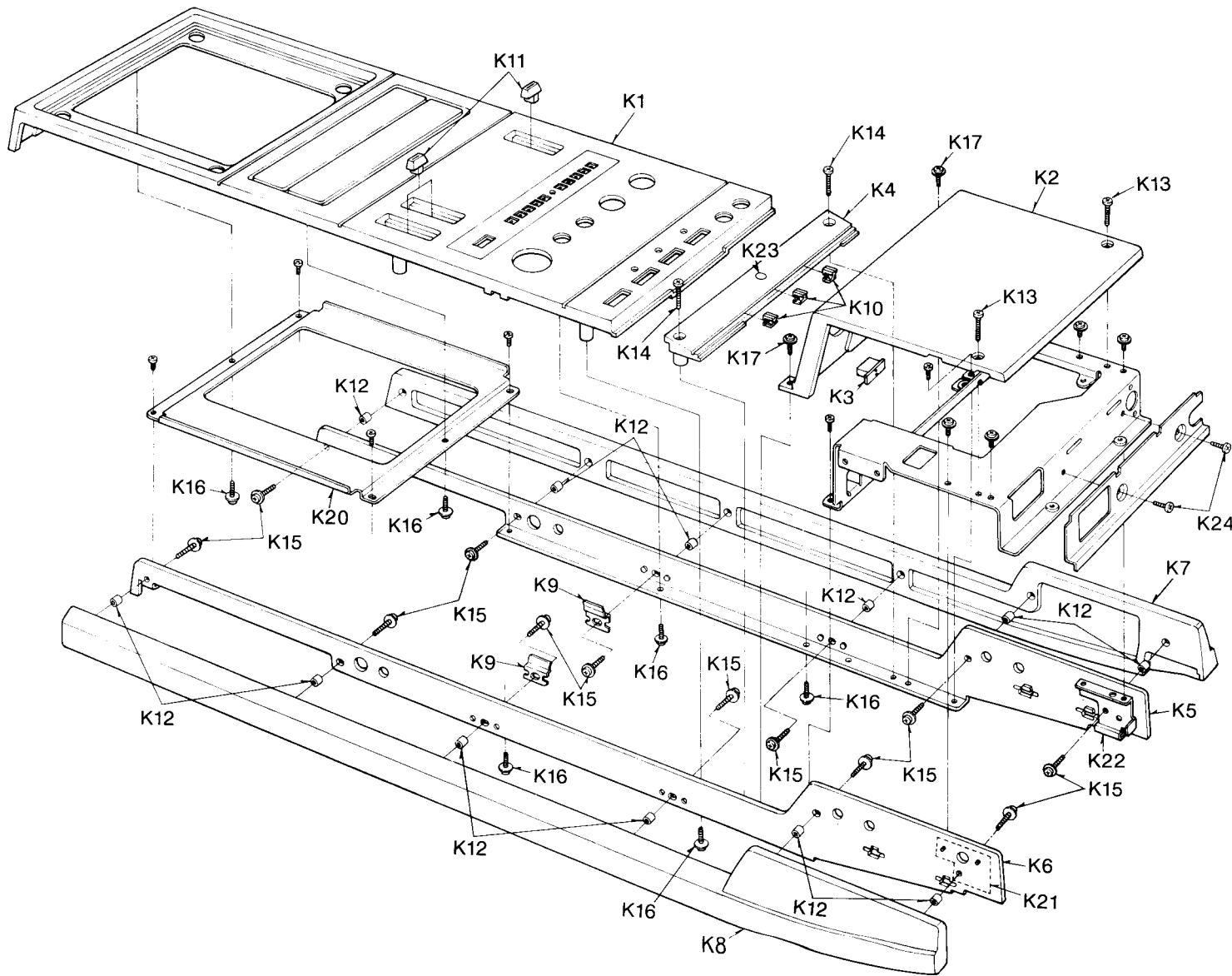


Fig. 25

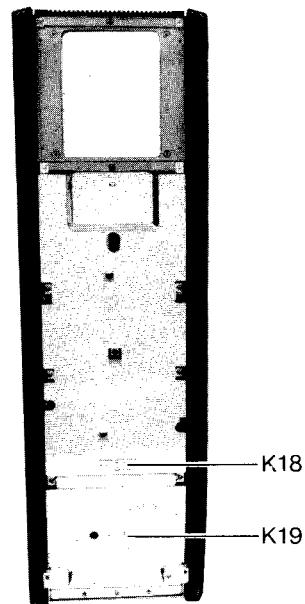


Fig. 26

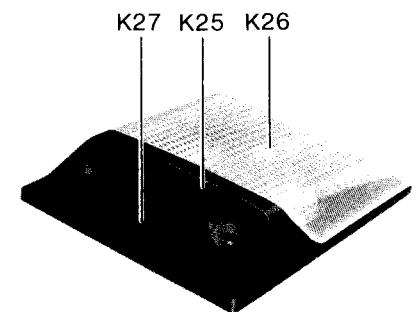


Fig. 27

CHASSIS PARTS LOCATIONS

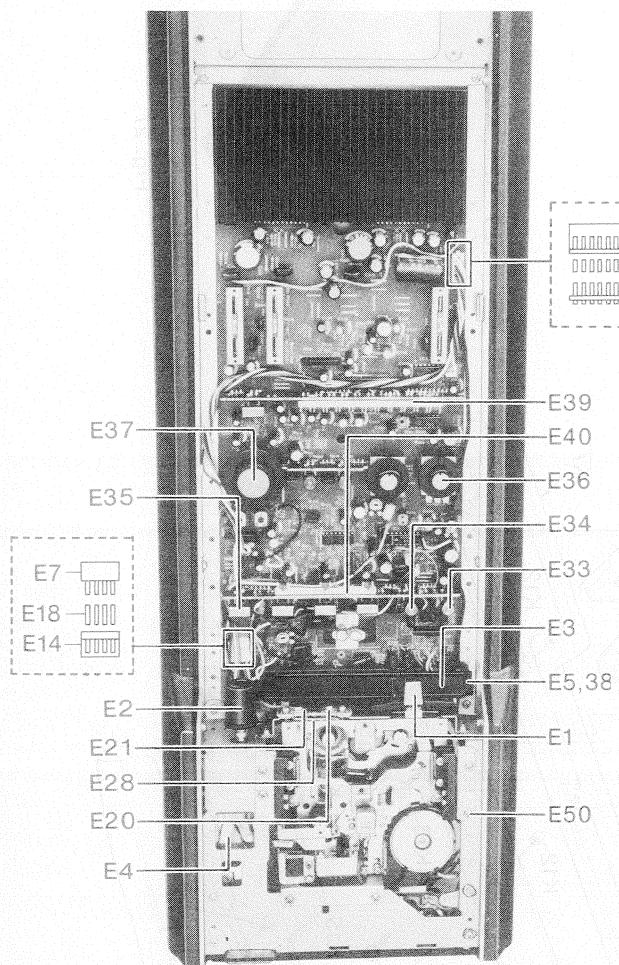


Fig. 28

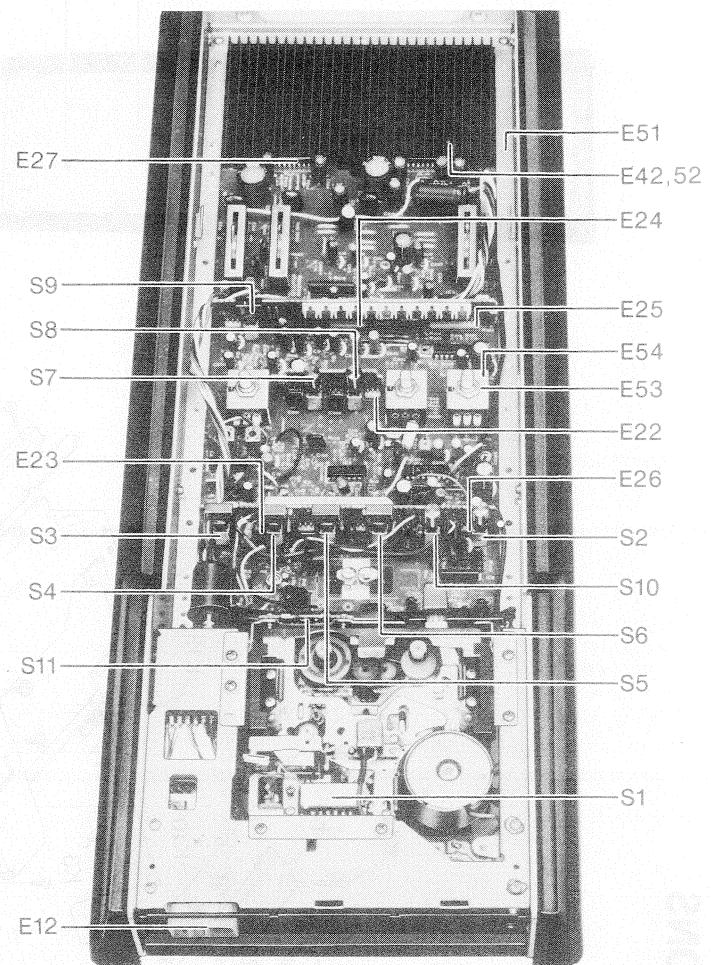


Fig. 29

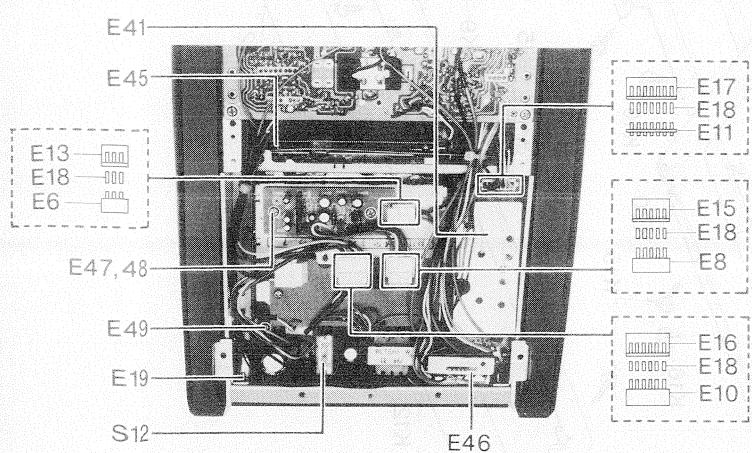


Fig. 30

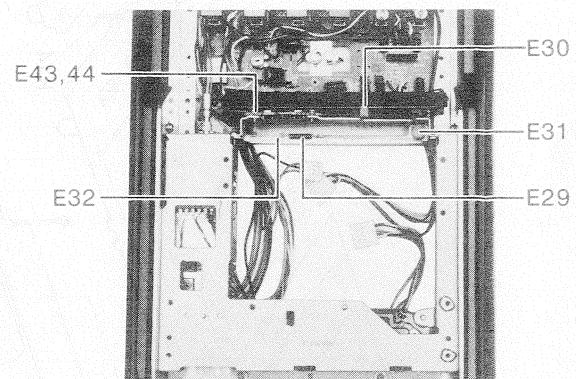


Fig. 31

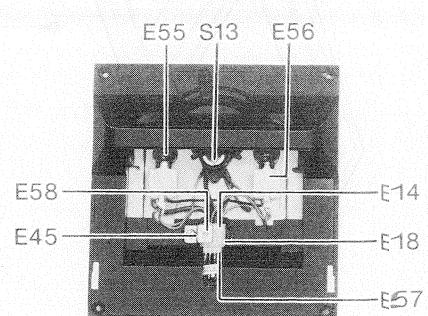
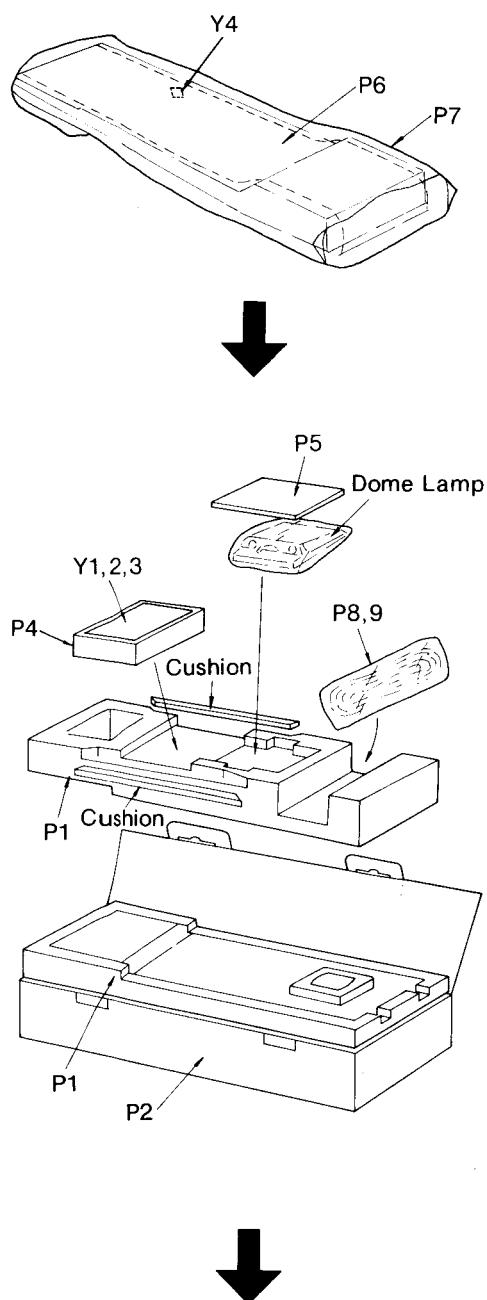
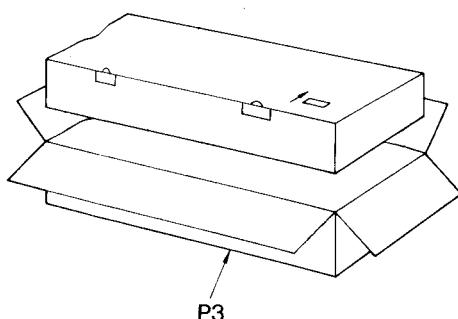


Fig. 32

PACKING MATERIALS**OVER-HEAD CONSOLE UNIT ACCESORIES**

A1,2	A3	A4	A5

DOME LAMP ACCESSORIES

A3	A32	A33	

Fig. 33

TECHNICAL EXPLANATION

1. Muting circuitry

The noise heard when an FM broadcast is detuned is especially irritating to hear, as is a broadcast station which has a high noise level because of insufficient reception input.

Model RM-310 is designed so that the FM AF signal is muted when reception input is insufficient and when it is tuned to a frequency between FM broadcast stations.

This function is performed by the muting circuitry described below.

Explanation of operation

(1) When, in the circuitry diagram shown below, the reception input begins to decrease, the muting-control voltage (detection of reception input level) of pin ⑪ of IC1 increases, is applied to the base of Q6, Q6 becomes on, and the collector potential of Q6 decreases.

- (2) Q7 becomes off when Q6 becomes on, and, as a result, the base potential of Q8 increases, causing Q8 to become on.
- (3) As a result, there is then a short-circuit between the collector and emitter of Q8, and the FM AF output from pin ⑥ of IC2 passes through the collector-emitter of Q8 to ground, thus resulting in the muting of the signal.

Half-Muting Effect

The IC (PVIUPC 1200 V) for the FM IF amplifier and detector in the circuitry diagram below functions to reduce the noise level during reception of weak signals. This is useful to reduce the noise which occurs because of changes in the strength of the electric field when, for example, the vehicle passes between high buildings. (VR21 is a semi-fixed resistor for adjustment of operational sensitivity.)

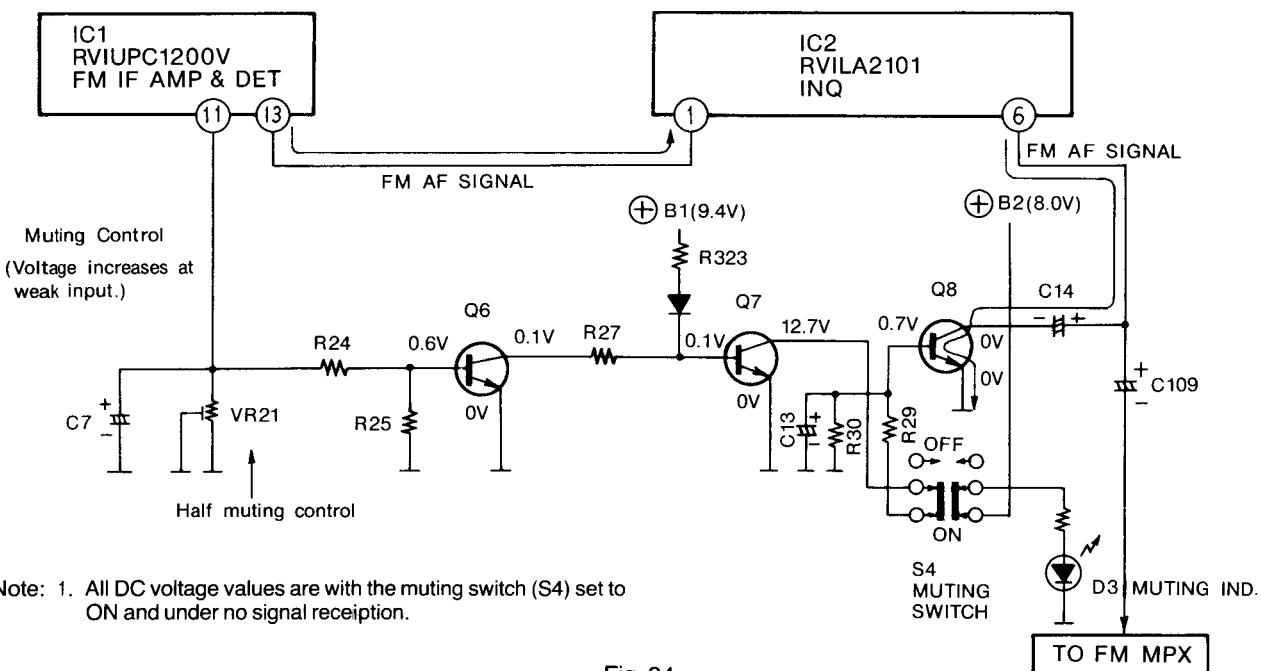


Fig. 34

2. Dome Lamp

The Dome Lamp included in the RM-310, when properly wired to the vehicle, maybe controlled in the following ways by switching.

- (1) The lamps illuminate only when the doors are opened
- (2) Only the lamp on the left side illuminates
- (3) Only the lamp on the right side illuminates
- (4) The lamps are off

Method of wiring to the vehicle

(1) For GM vehicles (with the door switch on the negative side of the battery)

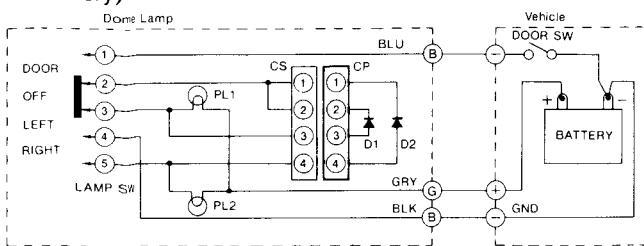


Fig. 35

Note: On some models, the positive line from the battery is not wired to the dome lamps. For these models, the positive line should be wired directly from the battery.

(2) For Ford vehicles (with the door switch on the positive side of the battery)

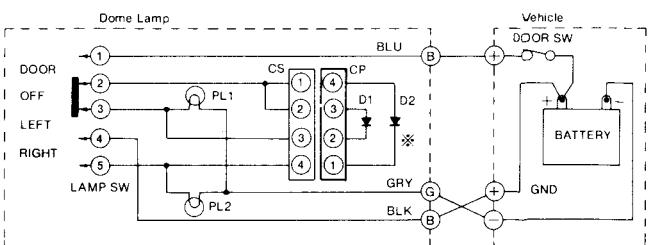


Fig. 36

Notes:

- On Ford vehicles, insert the diode plugs in the opposite direction (as indicated by the  mark in the above figure).
- On some models, the negative line from the battery is not wired to the dome lamps. For these models, the negative line should be wired directly from the battery.

■ REPLACEMENT PARTS LIST

**Model RM-310
(RD81081902C2)**

NOTES: 1. Important safety notice.

Components identified by **A** mark have special characteristics important for safety.

When replacing any of these components, use only manufacturer's specified parts.

2. The **S** mark indicates service standard parts and may differ from production parts.

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
MECHANICAL PARTS				
M1	RFI4Z	Cushion	2	
M2	RFE17Z	Cassette Guide (R)	1	
M3	RFE18Z	Cassette Guide (L)	1	
M4	RFE9Z	Push Arm (R)	1	
M5	RFS37Z	Push Arm Spring	2	
M6	RFE10Z	Push Arm (L)	1	
M7	RFS38Z	Spring	1	
M8	RFY1Z	FF/Rewind Lever	1	
M9	RFY2Z	Lock Arm	1	
M10	RFS39Z	Lock Arm Spring	1	
M12	RFY4Y	Head Plate	1	
M13	RFX1Z	Head Plate Spacer	1	
M14	RJH2P1Z	Head	1	
M15	RFS40Z	Head Spring	1	
M16	RFX2Z	Head Spacer	1	
M17	RFS41Z	Head Plate Spring	1	
M18	RFX3Z	Head Plate Spacer	1	
M19	RFS42Z	Head Plate Spring	1	
M20	RFR1X	Pinch Roller	1	
M21	RFD62Y	Pinch Roller Arm Shaft	1	
M22	RFS43X	Pinch Roller Spring	1	
M23	RFP9003Z	Plunger Assembly	1	
M24	RFD63Y	Switch Bracket	1	
M25	RFA8Z	Push Switch	1	
M26	RFY5Z	Idler Plate Assembly	1	
M27	RFK1Z	FF Idler Assembly	1	
M28	RFK2Z	Take Up Roller Assembly	1	
M29	RFX4Z	Idler Plate Metal	1	
M30	RFY6Z	FF Plate	1	
M31	RFS44Z	Spring	1	
M32	RFX5Z	FF Plate Spacer	1	
M33	RFY7Z	Rewind Lever	1	
M34	RFS45Z	Rewind Action Spring	1	
M35	RFY8Z	Rewind Arm Assembly	1	
M36	RFS46Z	Rewind Arm Spring	1	
M37	RFJ1Z	Take Up Reel Table Assembly	1	
M38	RFS47Z	Back Tension Spring	2	
M39	RFN12Z	Washer	2	
M40	RFJ2Z	Supply Reel Table Assembly	1	
M41	RFT1Z	PC Board	1	
M42	RFA9Z	Lead Switch	1	
M44	RFY4Z	Flywheel	1	
M45	RFN18Z	Washer	1	
M46	RFD65Z	Flywheel Retainer	1	
M47	MMS3NF2R	Motor	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
M48	RFQ5Z	Motor Pulley	1	
M49	RFB5Z	Belt	1	
M50	RFY9Z	Lift Plate Assembly	1	
M51	RFS48Z	Lift Spring	1	
M52	RFS49Z	Sub Chassis Spring	1	
M53	RFY10Z	Arm	4	
M54	RFY11Y	Lock Lever Assembly	1	
M55	RFS50Y	Spring	1	
M56	RFS51Y	Spring	1	
M57	RFY12Z	Lock Plate Assembly	1	
M58	RFX6Z	Lock Spacer	1	
M59	RFD66Z	Core Bracket	1	
M60	RFD9004Z	Core Assembly	1	
M61	RFS52Z	Spring	1	
M62	RFD67Z	Cord Holder	1	
M63	XSN2+5	Screw	3	S
M63-1	XWA2B	Washer	3	S
M64	XSN2+4	Screw	4	S
M64-1	XWA2B	Washer	4	S
M65	XSN26+4	Screw	8	S
M65-1	XWA26B	Washer	8	S
M66	XSN26+5	Screw	4	S
M66-1	XWA2B	Washer	4	S
M67	XSN2+5	Screw	1	S
M68	XSN2+8	Screw	1	S
M69	XSN26+4	Screw	4	S
M70	XSS26+11	Screw	1	
M71	XUC12FT	Circlip	2	S
M72	XUC15FT	Circlip	2	S
M73	XUC2FT	Circlip	4	S
M74	XUC25FT	Circlip	4	S
M75	XUC3FT	Circlip	2	S
M76	XWG2	Washer	1	S
M77	RFN19Z	Washer	1	
M78	XSBR2+2FZ	Screw	5	
M79	XSB2+2FZ	Screw	1	
M80	XSN26+6	Screw	2	S
M80-1	XWA26B	Washer	2	S
M81	RFT2Y	Circuit Board	1	
M82	RFX7Z	Spacer	1	
M83	RFD68Y	Bracket	1	
M84	XSN3+3S	Screw	4	
M85	XTN3+6B	Screw	2	S
M86	RFS123Z	Spring, Switch	1	
		INTEGRATED CIRCUITS, TRANSISTORS AND DIODES		
IC1	RVIUPC1200V	IC	1	
IC2	RVILA2101	IC	1	
IC3	AN362L	IC	1	
IC4,5	RVILB1416S	IC	2	
IC6	RVIM51521L	IC	1	
IC7	RVIBA335C	IC	1	
IC8	AN6550G	IC	1	
IC9,10	RVIUPC1185HE	IC	2	
IC11	RVILA1130	IC	1	
IC12	RVIUPC78L08	IC	1	
Q1	2SC2295	Transistor (Si)	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
Q2,3	2SB709	Transistor (Ge)	2	
Q4~9,17	2SD601	" (Si)	7	
Q10	2SC1847	" (Si)	1	
Q11~16	2SC1622AD17	" (Si)	6	
Q18	2SC2001	" (Si)	1	
Q19	2SA952	" (Ge)	1	
Q30	2SK49	" (Si)	1	
Q31	2SA564	" (Ge)	1	
Q32	2SC829	" (Si)	1	
D2,25,26	30,31,32,35			
	MA161	Diode (Si)	7	S
D3,4,5,8	13,14,34			
	LN222RP	LED (Ga)	7	
D6	LN217RP	" (Ga)	1	
D7	RVDRD12FB	Diode (Si)	1	S
D9~12,15	16~18,33			
	LN322GP	LED (Ga)	9	
D19	RVDRD10EB	Diode (Si)	1	
D20~22	SM112	" (Si)	3	S
D23	RVDD150A	" (Si)	1	
D1,2	SM112	DOME LAMP Diode (Si)	2	S
		COILS AND TRANSFORMERS		
L701	RLT6H6	Coil, Chock	1	
T1	RLQM3301	Coil, IF	1	
T2	RLI4M101	IFT, FM	1	
T801	RLO2M20	Oscillator Coil, AM	1	
T802	RLI7W104P	IFT, AM	1	S
T803	RLI2M204	" "	1	S
		VARIABLE RESISTORS		
VR1,2	EWKHBAA011B54	Variable Resistor, 50kΩ (B)	1	
VR3~6	EVBV18D10D15	" 100kΩ (D)	2	
VR7,8	EVBV17D10B15	" 100kΩ (B)	1	
VR9	EVHRQA518G54	" 50kΩ (G)	1	
VR10,11	EWJ4EA011B14	" 10kΩ (B)	1	
VR12,207	EVNM4AA00B53	" 5kΩ (B)	2	S
VR21	EVNM4AA00B14	" 10kΩ (B)	1	S
VR202	EVNM4AA00B24	" 20kΩ (B)	1	
		VARIABLE CAPACITORS		
CT801, 804	ECV1ZW90X32	Trimmer Capacitor	2	
CT802, 803	ECV1ZW60X53N	"	2	
		CERAMIC FILTERS		
CF1,2	RVFGF10S12FR	Ceramic Filter	2	
		COMPONENT COMBINATIONS		
Z1	RXA1GYF064	Component Combination	1	
Z2	RJE742	"	1	
		THERMISTORS		
Th1	RRT202	Thermistor	1	
Th2,3	RRT302	"	2	
		SWITCHES		
S1	RFA8Z	Switch, Tape Deck Power	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
S2~10	RSH2B09Y	Switch, Power, Selector etc.	9	
S12	RSL27Y	" Power	1	
S13	RWSML610M	DOME LAMP Switch, Lamp	1	
		RESISTORS (Value is in OHMS)		
R1	RRD18XK331	330 1/8W Chip	1	
R2	RRD18XK470	47 "	1	
R3	RRD18XK471	470 "	1	
R4	RRD18XK152	1.5 k "	1	
R5	RRD18XK151	150 "	1	
R6	RRD18XK471	470 "	1	
R9	RRD18XK154	150 k "	1	
R10	RRD18XK102	1 k "	1	
R11	RRD18XK222	2.2 k "	1	
R12	RRD18XK222	2.2 k "	1	
R13	RRD18XK103	10 k "	1	
R14	RRD18XK103	10 k "	1	
R15	RRD18XK102	1 k "	1	
R16	RRD18XK102	1 k "	1	
R17	RRD18XK474	470 k "	1	
R18	RRD18XK562	5.6 k "	1	
R19	RRD18XK331	330 "	1	
R20	RRD18XK334	330 k "	1	
R22	RRD18XK332	3.3 k "	1	
R23	RRD18XK101	100 "	1	
R24	RRD18XK223	22 k "	1	
R25	RRD18XK223	22 k "	1	
R26	RRD18XK103	10 k "	1	
R27	RRD18XK223	22 k "	1	
R28	RRD18XK102	1 k "	1	
R29	RRD18XK223	22 k "	1	
R30	RRD18XK223	22 k "	1	
R31	RRD18XK683	68 k "	1	
R32	RRD18XK472	4.7 k "	1	
R33	RRD18XK334	330 k "	1	
R34	RRD18XK331	330 "	1	
R35	ERD25TJ102	1 k 1/4W Carbon	1	
R36	ERD25TJ101	100 "	1	
R37	ERD25TJ332	3.3 k "	1	
R38	ERD25TJ332	3.3 k "	1	
R39	ERD25TJ332	3.3 k "	1	
R41	ERD25TJ562	5.6 k "	1	
R101	RRD18XK103	10 k 1/8W Chip	1	
R102	RRD18XK222	2.2 k "	1	
R103	RRD18XK222	2.2 k "	1	
R104	RRD18XK272	2.7 k "	1	
R105	RRD18XK223	22 k "	1	
R106	RRD18XK472	4.7 k "	1	
R107	RRD18XK472	4.7 k "	1	
R108	RRD18XK472	4.7 k "	1	
R109	RRD18XK472	4.7 k "	1	
R110	RRD18XK472	4.7 k "	1	
R111	RRD18XK222	2.2 k "	1	
R112	RRD18XK682	6.8 k "	1	
R113	RRD18XK102	1 k "	1	

S S S S

Ref. No.	Part No.	Part Name & Description			Per Set	Remarks	Ref. No.	Part No.	Part Name & Description			Per Set	Remarks
R114	RRD18XK473	47 k	1/8W	Chip	1		R412	RRD18XK472	4.7 k	1/8W	Chip	1	
R116	ERD25TJ682	6.8 k	1/4W	Carbon	1		R413	RRD18XK472	4.7 k	"	"	1	
R117	RRD18XK101	100	1/8W	Chip	1		R414	RRD18XK102	1 k	"	"	1	
R118	RRD18XK332	3.3 k	"	"	1		R415	RRD18XK472	4.7 k	"	"	1	
R119	RRD18XK104	100 k	"	"	1		R416	RRD18XK473	47 k	"	"	1	
R201	RRD18XK470	47	"	"	1		R421	RRD18XK224	220 k	"	"	1	
R203	RRD18XK153	15 k	"	"	1		R423	RRD18XK102	1 k	"	"	1	
R204	RRD18XK102	1 k	"	"	1		R424	RRD18XK103	10 k	"	"	1	
R205	RRD18XK473	47 k	"	"	1		R425	RRD18XK102	1 k	"	"	1	
R206	RRD18XK472	4.7 k	"	"	1		R426	RRD18XK221	220	"	"	1	
R210	RRD18XK472	4.7 k	"	"	1		R427	RRD18XK102	1 k	"	"	1	
R211	RRD18XK472	4.7 k	"	"	1		R428	RRD18XK472	4.7 k	"	"	1	
R213	RRD18XK332	3.3 k	"	"	1		R429	RRD18XK332	3.3 k	"	"	1	
R214	RRD18XK332	3.3 k	"	"	1		R501	RRD18XK682	6.8 k	"	"	1	
R215	RRD18XK181	180	"	"	1		R502	RRD18XK682	6.8 k	"	"	1	
R217	RRD18XK332	3.3 k	"	"	1		R503	RRD18XK474	470 k	"	"	1	
R218	RRD18XK332	3.3 k	"	"	1		R504	RRD18XK474	470 k	"	"	1	
R219	RRD18XK102	1 k	"	"	1		R505	RRD18XK471	470	"	"	1	
R220	ERD25TJ103	10 k	1/4W	Carbon	1	S	R506	RRD18XK471	470	"	"	1	
R221	ERD25TJ103	10 k	"	"	1	S	R507	RRD18XK472	4.7 k	"	"	1	
R222	RRD18XK472	4.7 k	1/8W	Chip	1		R508	RRD18XK472	4.7 k	"	"	1	
R301	RRD18XK103	10 k	"	"	1		R509	RRD18XK222	2.2 k	"	"	1	
R302	RRD18XK103	10 k	"	"	1		R510	RRD18XK222	2.2 k	"	"	1	
R303	RRD18XK101	100	"	"	1		R511	RRD18XK223	22 k	"	"	1	
R304	RRD18XK470	47	"	"	1		R512	RRD18XK223	22 k	"	"	1	
R305	RRD18XK470	47	"	"	1		R513	RRD18XK474	470 k	"	"	1	
R306	RRD18XK470	47	"	"	1		R514	RRD18XK474	470 k	"	"	1	
R307	RRD18XK470	47	"	"	1		R515	RRD18XK221	220	"	"	1	
R308	RRD18XK103	10 k	"	"	1		R516	RRD18XK221	220	"	"	1	
R309	RRD18XK153	15 k	"	"	1		R517	RRD18XK682	6.8 k	"	"	1	
R310	RRD18XK334	330 k	"	"	1		R518	RRD18XK682	6.8 k	"	"	1	
R311	RRD18XK102	1 k	"	"	1		R519	RRD18XK104	100 k	"	"	1	
R312	RRD18XK153	15 k	"	"	1		R520	RRD18XK104	100 k	"	"	1	
R313	RRD18XK103	10 k	"	"	1		R521	RRD18XK221	220	"	"	1	
R314	RRD18XK334	330 k	"	"	1		R522	RRD18XK103	10 k	"	"	1	
R315	RRD18XK101	100	"	"	1		R523	RRD18XK103	10 k	"	"	1	
R316	RRD18XK470	47	"	"	1		R524	RRD18XK105	1 M	"	"	1	
R317	RRD18XK470	47	"	"	1		R525	RRD18XK105	1 M	"	"	1	
R318	RRD18XK470	47	"	"	1		R526	RRD18XK103	10 k	"	"	1	
R319	RRD18XK470	47	"	"	1		R527	RRD18XK103	10 k	"	"	1	
R320	RRD18XK103	10 k	"	"	1		R528	RRD18XK105	1 M	"	"	1	
R321	RRD18XK103	10 k	"	"	1		R529	RRD18XK105	1 M	"	"	1	
R322	RRD18XK102	1 k	"	"	1		R532	RRD18XK103	10 k	"	"	1	
R323	RRD18XK103	10 k	"	"	1		R533	RRD18XK103	10 k	"	"	1	
R324	ERD25TJ102	1 k	1/4W	Carbon	1	S	R534	RRD18XK103	10 k	"	"	1	
R401	RRD18XK473	47 k	1/8W	Chip	1		R537	RRD18XK332	3.3 k	"	"	1	
R402	RRD18XK333	33 k	"	"	1		R538	RRD18XK332	3.3 k	"	"	1	
R403	RRD18XK151	150	"	"	1		R539	RRD18XK273	27 k	"	"	1	
R404	RRD18XK153	15 k	"	"	1		R540	RRD18XK273	27 k	"	"	1	
R405	RRD18XK104	100 k	"	"	1		R541	RRD18XK273	27 k	"	"	1	
R406	RRD18XK474	470 k	"	"	1		R542	RRD18XK273	27 k	"	"	1	
R407	RRD18XK104	100 k	"	"	1		R543	RRD18XK474	470 k	"	"	1	
R408	RRD18XK151	150	"	"	1		R544	RRD18XK474	470 k	"	"	1	
R409	RRD18XK333	33 k	"	"	1		R545	RRD18XK102	1 k	"	"	1	
R410	RRD18XK153	15 k	"	"	1		R546	RRD18XK102	1 k	"	"	1	
R411	RRD18XK474	470 k	"	"	1		R547	RRD18XK102	1 k	"	"	1	

Ref. No.	Part No.	Part Name & Description			Per Set	Remarks	Ref. No.	Part No.	Part Name & Description			Per Set	Remarks
R548	RRD18XK102	1 k	1/8W	Chip	1		C21	ECQG05683MZ	0.068	50V	Polyester	1	
R549	RRD18XK221	220	"	"	1		C22	ECKD1H102MD	0.001	"	Ceramic	1	
R550	RRD18XK221	220	"	"	1		C23	ECCD1H150KC	15 p	"	"	1	
R551	RRD18XK473	47 k	"	"	1		C101	ECUX1H221KD	220 p	"	Chip	1	
R552	RRD18XK473	47 k	"	"	1		C102	ECEA50Z1	1	"	Electrolytic	1	
R553	RRD18XK333	33 k	"	"	1		C103	ECQG05473MZ	0.047	"	Polyester	1	
R554	RRD18XK333	33 k	"	"	1		C104	ECUX1H681KD	680 p	"	Chip	1	
R601	ERD25TJ1RO	1	1/4W	Carbon	1	S	C105	ECUX1H681KD	680 p	"	"	1	
R602	ERD25TJ1RO	1	"	"	1	S	C106	ECQS1H122KZ	1200 p	"	Styrol	1	
R603	ERD25TJ101	100	"	"	1	S	C107	ECUX1H680KC	68 p	"	Chip	1	
R604	ERD25TJ101	100	"	"	1	S	C108	ECUX1H682MD	0.0068	"	"	1	
R605	ERD25TJ101	100	"	"	1	S	C109	ECEA50Z2R2	2.2	"	Electrolytic	1	
R606	ERD25TJ101	100	"	"	1	S	C111	ECUX1H271KD	270 p	"	Chip	1	
R607	ERD25TJ1RO	1	"	"	1	S	C112	ECUX1H271KD	270 p	"	"	1	
R608	ERD25TJ1RO	1	"	"	1	S	C113	ECUX1H271KD	270 p	"	"	1	
R701	ERX1ANJP2R2	2.2	1W	Metal	1		C114	ECUX1H103MD	0.01	"	"	1	
R801	RRD18XK104	100 k	1/8W	Chip	1		C115	ECEA50Z1	1	"	Electrolytic	1	
R802	RRD18XK102	1 k	"	"	1		C116	ECUX1H222MD	0.0022	"	Chip	1	
R803	RRD18XK334	330 k	"	"	1		C117	ECKD1H222MD	0.0022	"	Ceramic	1	
R804	RRD18XK153	15 k	"	"	1		C118	ECEA1ES101	100	25V	Electrolytic	1	
R805	RRD18XK101	100	"	"	1		C201	ECEA1CS221	220	16V	"	1	
R806	RRD18XK103	10 k	"	"	1		C202	ECQG05473MZ	0.047	50V	Polyester	1	
R807	RRD18XK103	10 k	"	"	1		C203	ECQS05471JZ	470 p	"	Styrol	1	
R808	RRD18XK473	47 k	"	"	1		C204	ECQG05333MZ	0.033	"	Polyester	1	
R809	RRD18XK101	100	"	"	1		C205	ECEA50ZR22	0.22	"	Electrolytic	1	
R810	RRD18XK680	68	"	"	1		C206	ECEA50ZR47	0.47	"	"	1	
R811	RRD18XK101	100	"	"	1		C207	ECEA50Z1	1	"	"	1	
R812	RRD18XK102	1 k	"	"	1		C208	ECQG05333MZ	0.033	"	Polyester	1	
R813	RRD18XK103	10 k	"	"	1		C209	ECEA50ZR47	0.47	"	Electrolytic	1	
R814	RRD18XK103	10 k	"	"	1		C210	ECEA50ZR47	0.47	"	"	1	
R815	RRD18XK333	33 k	"	"	1		C212	ECEA1ES470	47	25V	"	1	
R816	RRD18XK152	1.5 k	"	"	1		C213	ECEA1CSS471	470	16V	"	1	
R817	RRD18XK222	2.2 k	"	"	1		C214	ECEA50ZR1	0.1	50V	"	1	
R818	RRD18XK102	1 k	"	"	1		C215	ECEA50Z1	1	"	"	1	
R819	RRD18XK683	68 k	"	"	1		C301	ECEA1HS100	10	"	"	1	
		CAPACITORS (Value is in MICRO FARADS except P.P=PICO FARADS)					C302	ECEA1HS100	10	"	"	1	
C1	ECEA1AS221	220	10V	Electrolytic	1	S	C303	ECEA1HS100	10	"	"	1	
C2	ECUX1H223ZF	0.022	50V	Chip	1		C304	ECEA1HS100	10	"	"	1	
C3	ECUX1H223ZF	0.022	"	"	1		C401	ECUX1H102MD	0.001	"	Chip	1	
C4	ECUX1H223ZF	0.022	"	"	1		C402	ECEA1HS100	10	"	Electrolytic	1	
C5	ECUX1H223ZF	0.022	"	"	1		C403	ECEA1AS470	47	10V	"	1	
C6	ECUX1H223ZF	0.022	"	"	1		C404	ECEA1AS470	47	"	"	1	
C7	ECEA25Z4R7	4.7	25V	Electrolytic	1	S	C406	ECUX1H682MD	0.0068	50V	Chip	1	
C8	ECUX1H102MD	0.001	50V	Chip	1		C407	ECEA1AS470	47	10V	Electrolytic	1	
C9	ECEA1ES470	47	25V	Electrolytic	1	S	C408	ECEA1HS100	10	50V	"	1	
C10	ECUX1H223ZF	0.022	50V	Chip	1		C409	ECEA1AS101	100	10V	"	1	
C11	ECUX1H333ZF	0.033	"	"	1		C411	ECUX1H682MD	0.0068	50V	Chip	1	
C12	ECUX1H221KD	220 p	"	"	1		C412	ECUX1H102MD	0.001	"	"	1	
C13	ECEA50Z1	1	"	Electrolytic	1	S	C413	ECUX1H221KD	220 p	"	"	1	
C14	ECEA25Z4R7	4.7	25V	"	1	S	C414	ECUX1H221KD	220 p	"	"	1	
C15	ECUX1H223ZF	0.022	50V	Chip	1		C415	ECEA50Z1	1	"	Electrolytic	1	
C16	ECEA25Z4R7	2.2	25V	Electrolytic	1	S	C416	ECEA50Z1	1	"	"	1	
C18	ECUX1H153MD	0.015	50V	Chip	1		C421	ECUX1H333ZF	0.033	"	Chip	1	
C19	ECUX1H333ZF	0.033	"	"	1		C422	ECEA1HK010	1	"	Electrolytic	1	
C20	ECUX1H103MD	0.01	"	"	1		C423	ECEA1EK4R7	4.7	25V	"	1	
							C424	ECEA1HK3R3	3.3	50V	"	1	

Ref. No.	Part No.	Part Name & Description			Per Set	Remarks	Ref. No.	Part No.	Part Name & Description			Per Set	Remarks
C425	ECEA1HK2R2	2.2	50V	Electrolytic	1		C613	ECEALAS221	220	10V	Electrolytic	1	S
C426	ECEA1CK470	47	16V	"	1		C614	ECEALAS221	220	"	"	1	S
C427	ECEA1AK330	33	10V	"	1		C615	ECQG05104MZ	0.1	50V	Polyester	1	
C428	ECEA1AK470	47	"	"	1		C616	ECQG05104MZ	0.1	"	"	1	
C429	ECEA1CK470	47	16V	"	1		C617	ECEA1CS222	2200	16V	Electrolytic	1	S
C430	ECEA1ES470	47	25V	"	1	S	C618	ECUX1H152MD	0.0015	50V	Chip	1	
C501	ECQG05473MZ	0.047	50V	Polyester	1		C619	ECUX1H152MD	0.0015	"	"	1	
C502	ECQG05473MZ	0.047	"	"	1		C620	ECUX1H152MD	0.0015	"	"	1	
C503	ECEA50Z1	1	"	Electrolytic	1	S	C621	ECUX1H152MD	0.0015	"	"	1	
C504	ECEA50Z1	1	"	"	1	S	C701	ECEA1CS222	2200	16V	Electrolytic	1	S
C505	ECUX1H102ZF	0.001	"	Chip	1		C702	ECEA1CS222	2200	"	"	1	S
C506	ECUX1H102ZF	0.001	"	"	1		C801	ECUX1H330KC	33 p	50V	Chip	1	
C507	ECEA1HS100	10	"	Electrolytic	1	S	C802	ECUX1H331KD	330 p	"	"	1	
C508	ECEA1HS100	10	"	"	1	S	C803	ECUX1H153MD	0.015	"	"	1	
C509	ECUX1H332MD	0.0033	"	Chip	1		C804	ECUX1H221JD	220 p	"	"	1	
C510	ECUX1H332MD	0.0033	"	"	1		C805	ECUX1H103MD	0.01	"	"	1	
C511	ECQG05473MZ	0.047	"	Polyester	1		C806	ECUX1H153MD	0.015	"	"	1	
C512	ECQG05473MZ	0.047	"	"	1		C807	ECUX1H153MD	0.015	"	"	1	
C513	ECUX1H103MD	0.01	"	Chip	1		C808	ECEA1AK220	22	10V	Electrolytic	1	
C514	ECUX1H103MD	0.01	"	"	1		C809	ECUX1H153MD	0.015	50V	Chip	1	
C515	ECEA50ZR22	0.22	"	Electrolytic	1	S	C810	ECUX1H333ZF	0.033	"	"	1	
C516	ECEA50ZR22	0.22	"	"	1	S	C811	ECUX1H153MD	0.015	"	"	1	
C517	ECEA50Z1	1	"	"	1	S	C812	ECUX1H153MD	0.015	"	"	1	
C518	ECEA50Z1	1	"	"	1	S	C813	ECEA1HK4R7	4.7	"	Electrolytic	1	
C519	ECEA1HS100	10	"	"	1	S	C814	ECUX1H680JC	680 p	"	Chip	1	
C520	ECEA1HS100	10	"	"	1	S	C816	ECUX1H153MD	0.015	"	"	1	
C521	ECEA1AS221	220	10V	"	1	S	C817	ECEA1AK330	33	10V	Electrolytic	1	
C522	ECUX1H153MD	0.015	50V	Chip	1		C818	ECUX1H153MD	0.015	50V	Chip	1	
C523	ECUX1H153MD	0.015	"	"	1		C819	ECUX1H153MD	0.015	"	"	1	
C524	ECEA1CSS471	470	16V	Electrolytic	1	S	C821	ECUX1H151JD	150 p	"	"	1	
C525	ECQG05223MZ	0.022	50V	Polyester	1		C822	ECUX1H681KD	680 p	"	"	1	
C526	ECQG05223MZ	0.022	"	"	1		C823	ECUX1H681KD	680 p	"	"	1	
C527	ECUX1H222MD	0.0022	"	Chip	1		C824	ECUX1H102MD	0.001	"	"	1	
C528	ECUX1H222MD	0.0022	"	"	1		C825	ECUX1H681KD	680 p	"	"	1	
C529	ECEA1CS330	33	16V	Electrolytic	1	S	C826	ECEA1AK470	47	10V	Electrolytic	1	
C530	ECEA1HS100	10	50V	"	1	S	C827	ECEA1AK470	47	"	"	1	
C531	ECEA1HS100	10	"	"	1	S	C828	ECUX1H153MD	0.015	50V	Chip	1	
C532	ECEA50Z1	1	"	"	1	S	C830	ECUX1H153MD	0.015	"	"	1	
C533	ECEA50Z1	1	"	"	1	S	C831	ECEA1AK220	22	10V	Electrolytic	1	
C534	ECEA50ZR1	0.1	"	"	1	S	C832	ECUX1H330KC	33 p	50V	Chip	1	
C535	ECEA50ZR1	0.1	"	"	1	S	C833	ECEA25N2R2	2.2	25V	Electrolytic	1	
C536	ECEA50MR33	0.33	"	"	1	S	C834	ECUX1H472MD	0.0047	50V	Chip	1	
C537	ECEA50MR33	0.33	"	"	1	S	C835	ECEA1CK470	47	16V	Electrolytic	1	
C538	ECEA1AS471	470	10V	"	1	S	C836	ECUX1H333ZF	0.033	50V	Chip	1	
C539	ECEA50ZR1	0.1	50V	"	1	S	C837	ECUX1H103MD	0.01	"	"	1	
C540	ECEA50ZR1	0.1	"	"	1	S	C838	ECUX1H471KD	470 p	"	"	1	
C601	ECQG05104MZ	0.1	50V	Polyester	1		C839	ECUX1H333ZF	0.033	"	"	1	
C602	ECQG05104MZ	0.1	"	"	1		C840	ECCD1H121JC	120 p	"	Ceramic	1	
C603	ECEA1AS221	220	10V	Electrolytic	1	S	C841	ECCD1H820K	82 P	"	"	1	
C604	ECEA1AS221	220	"	"	1	S			CABINET PARTS				
C607	ECEA1AS221	220	"	"	1	S	K1	RYP2M310M	Panel Assembly			1	
C608	ECEA1AS221	220	"	"	1	S	K2	RYP1M310XG	Deck Cover Assembly			1	
C609	ECEA1AS221	220	"	"	1	S	K3	RYT1M300N	Eject Button Assembly			1	
C610	ECEA1AS221	220	"	"	1	S	K4	RGP575Y	Panel, Ant. Trim Mark			1	
C611	ECEA1CSS102	1000	16V	"	1	S	K5	RGX1008Z	Cabinet Frame, Right Side			1	
C612	ECEA1CSS102	1000	"	"	1	S							

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
K6	RGX1008Y	Cabinet Frame, Left Side	1	
K7	RGX1097Z	Ornament, Right Side	1	
K8	RGX1097Y	" Left Side	1	
K9	RUL596Z	Bracket, Panel	2	
K10	RDP208Z	Point, Dial	3	
K11	RBD63Z	Knob, Equalizer	3	
K12	RHM114Z	Spacer, Cabinet Frame	12	
K13	XTB3+10CFZ	Screw, Deck Cover M'tg	2	
K14	XTB3+16CFZ	" Panel (Ant. Trim) M'tg	2	
K15	XTW3+12F	" Cabinet Frame M'tg	12	
K16	XTW3+12FR	Red Screw, Panel M'tg	7	
K17	XTW3+8FR	" Deck Cover M'tg	2	
K18	RGT764W8	Name Plate	1	
K19	RQT4241X	Caution Sheet	1	
K20	RUA388Z	Rear Mounting Bracket	1	
K21	RUL595Z	Bracket, Cabinet Frame, Left	1	
K22	RUL595Y	" " Right	1	
K23	RHG307A	Cover, Ant. Trim	1	
K24	XTB3+8BFZ	Screw, Deck Bracket M'tg	2	
		DOME LAMP		
K25	RYMLM610M7	Cabinet Assembly, Dome Lamp	1	
K26	RGX1039Z	Lamp Cover	1	
K27	RBD107Z	Knob, Lamp Switch	1	
		ELECTRICAL PARTS		
E1	RYT2M300N	Button Assembly, FF, REW	1	
E2	RBN539Z	Knob, Tuning	1	
E3	RYEM310M	Dial Back Plate Assembly	1	
E4	RSD18Z	FM Tuner	1	
E5	XAMR50S400	Pilot Lamp, 12V, 0.03A	2	
E6	RJP133Z	Plug, 3 Pin, CP22	1	
E7	RJP134Z	" 4 Pin, CN2	1	
E8	RJP136Z	" 5 Pin	1	
E9	RJP142Z	" 6 Pin, CN3	1	
E10	RJP144Z	" 6 Pin,	1	
E11	RJP119Z	" 7 Pin, CP21	1	
E12	RJP204Z	" SP, Power	1	
E13	RJS253X	Socket, 3 Pin	1	
E14	RJS216X	" 4 Pin	2	
E15	RJS217X	" 5 Pin	2	
E16	RJS112X	" 6 Pin	2	
E17	RJS219X	" 7 Pin	1	
E18	RJT462Y	Terminal, Socket	40	
E19	RJS163Z	Socket, Antenna	1	
E20	RJT433Z	Terminal, Eject Switch	2	
E21	RJT663Z	Spring, Eject Switch	1	
E22	RJT665Z	Connector, 3 Pin, CN10~12, 14~16, 20	7	
E23	RJT666Z	Connector, 5 Pin, CN13	1	
E24	RJT667Z	" 7 Pin, CN19	1	
E25	RJT668Z	" 10 Pin, CN18	1	
E26	RJT671Z	" 4 Pin, CN17	1	
E27	RMX159Z	Insulator	2	
E28	RMX160Z	"	1	
E29	RDS3090A	Spring, Dial	1	
E30	RDP207Z	Pointer, Dial	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
E31	RDR9008Z	Roller, Dial	3	
E32	RDZ05A	Cord, Dial	1	
				ROLL
E33	RBC152Z	Button, Power	1	
E34	RBC152Y	" Band, Loudness etc.	3	
E35	RBC153Z	" Sens, Muting, etc.	5	
E36	RBN537Z	Knob, Balance, Fader	2	
E37	RBN538Z	" Volume	1	
E38	RHG219Z	Rubber, Pilot Lamp	2	
E39	RMP123Z	Holder, LED	1	
E40	RMP124Z	" "	1	
E41	RMC684Z	Shield Cover	1	
E42	XSN3+14BVS	Screw, Power IC M'tg	4	S
E43	XSN3+5S	" Deck, Eject Switch M'tg	4	S
E44	XWA3B	Washer	6	S
E45	XTN3+8B	Screw, Dial Back Plate etc. M'tg	15	S
E46	XTN3+10B	Screw, PC Board M'tg	1	S
E47	XSN3+6S	" Deck PC Board M'tg	2	S
E48	XWG3	Washer, Deck PC Board M'tg	2	S
E49	XTW3+6F	Screw, Pointer Guide etc. M'tg	19	
E50	XTW3+6FR	Red Screw, Tape Deck M'tg	6	
E51	XTW3+8F	Screw, Heat Sink M'tg	8	
E52	XWC3B	Washer	8	S
E53	XNS8D	Nut, Volume M'tg	3	
E54	RMR75Z	Bracket, Volume	3	
		DOME LAMP		
E55	XAMR70T	Dome Lamp	2	
E56	RJS205Y	Socket, Lamp	2	
E57	RJP107Z	Plug,	1	
E58	RUL408Z	Bracket, Socket	1	
		ACCESSORIES		
A1	WRRRA-30XX	Dome Lamp Extension Wire	1	
A2	WRRH-30XX	"	1	
A3	RHR131Z	Wire Nut	12	
A4	RKC61Z	Front Mounting Plate	1	
A5	RKC61Y	"	1	
A6	RKE320Z	Front Plate Cover	1	
A7	RKC51X	Rear Mounting Plate	1	
A8	RYED61001M	Rear Extension Plate	1	
A9	RKE319Z	Padded Rear Cover	1	
A10	RHR980Z	Wire Protector	1	
A11	RHR1088Z	Foam Spacer	2	
A12	XSN4+8C	Screw	8	S
A13	XWA4B	Washer	8	S
A14	XTN5+12AFX	Self Tap Screw	2	
A15	XTN5+16B	"	2	S
A16	XTN5+20AFZ	"	2	S
A17	XTB4+16AFN	"	1	
A18	XWG4	Flat Washer	8	S
A19	XWG5F16	"	6	S
A20	XWA5B	Lock Washer	4	S
A21	XNG5ES	Hex. Nut	4	S
A22	RME202Z	Wire Clamp	3	S
A23	RME188Z	"	6	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
A24	RHR993Z	Wire Clamp	6	
A25	XBALE60NS5	Fuse	2	
A26	RJT687Z	Male Adaptor Terminal	1	
A27	RJT686Z	Male Adaptor Terminal	1	
A28	RWAM310M	Power Cord Assembly	1	
A29	RJP177Z	Antenna Cord	1	
A30	RWN1M310M	Speaker Connector Assembly, (Front SP)	1	
A31	RWN2M310M	Speaker Connector Assembly, (Rear SP)	1	
A32	XTB3+10CFZ	Self Tap Screw	4	
A33	RJT218Z	Terminal	1	
PACKING MATERIALS				
P1	RPN9344Z	Pad Complete	1	
P2	RPK1249Z	Gift Box	1	
P3	RPG2467Z	Carbon Box	1	
P4	RPK818Z	Box	1	
P5	RPN2927Z	Pad	1	
P6	RPH322Z	Soft Sheet	1	
P7	RPP258Z	Polyethylene Cover	1	
P8	XZB20X40A04	Polyethylene Cover	1	S
P9	XZB10X15A04	Polyethylene Cover	1	S
PRINTED MATERIALS				
Y1	RQX6819Z	Instruction Book	1	
Y2	RQX9272Z	Instruction for Mounting	1	
Y3	RQX9257Z	Caution Sheet	1	
Y4	RQE18Z	Caution Tap	1	